

# Manufacturers Record

## Exponent of America



\$6.50 per Year.  
Single Copy, 20 Cents.

Baltimore, Md.  
SEPTEMBER 20, 1923

### AWAY WITH PESSIMISM!

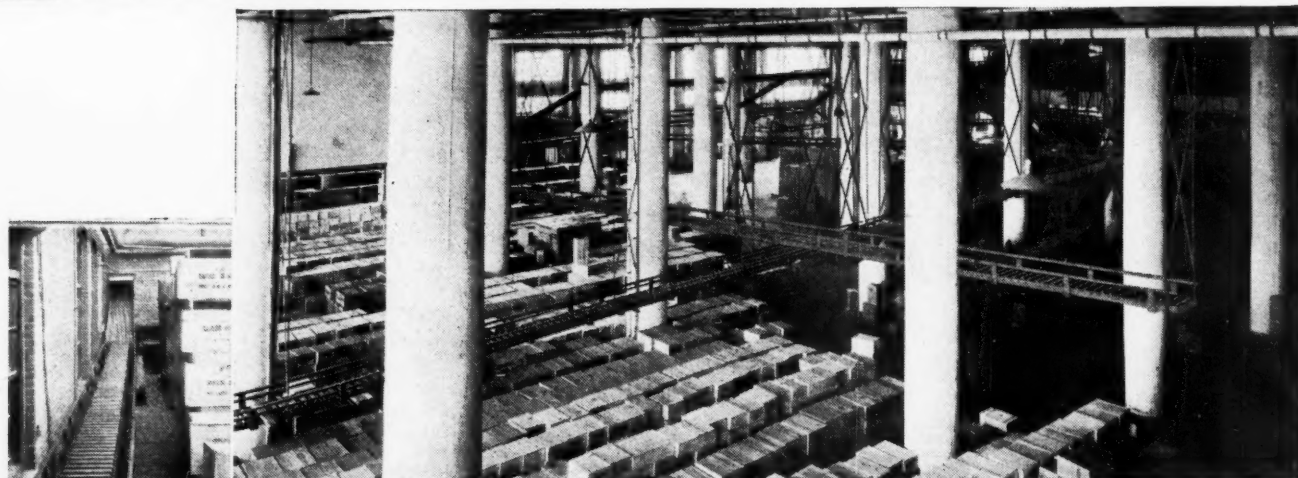
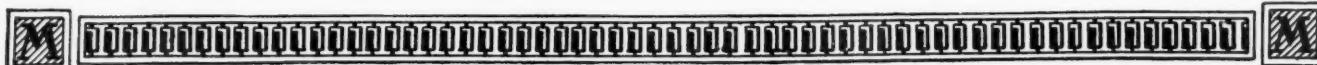
The Jeremiahs of the day are legion but they are not true prophets. They tell us in mournful numbers that the world is growing worse, that European civilization will go down in ruins unless we save it, thus in that very statement placing our country upon a Pharisaical pedestal and in effect saying, "We thank Thee, O Lord, that we are not as other nations."

The world is not growing worse. The froth and the foam are coming to the top, as scum always rises in the refining process, but the pure metal is being produced in larger quantities than ever before. The stir of a mighty spiritual awakening is seen or felt throughout the world. Men and women are giving themselves with an abandon never equalled before to the service of mankind, and thus to the service of God. They are offering their lives for every foreign missionary field, however dangerous it may be; they are giving themselves to good works of every kind, in the slums, down among the outcasts, in hospitals, and wherever the call of suffering or struggling humanity is heard.

And money! Why millions on top of millions, worth infinitely less than personal self-sacrifice it is true, are being literally poured out for the good of humanity. The sick child no longer cries in vain for help; the woes of the poor and the halt and the blind rest heavily upon the hearts of millions and call forth sympathy and love and help unprecedented in the world's history. The Golden Rule is proclaimed in spirit in thousands of business offices, and business gatherings are now as never before giving voice to the teachings and to the spirit of The Christ.

If our ears could but be attuned to catch the notes of this world-awakening spiritual music, it would sound as sweet as the song of the Angel Chorus over the plains of Judea.

Away then with the gloom of despair, the picture of a world growing worse, and up with the song of thanksgiving, that beneath all the scum of the hour there is being refined the pure metal of higher and holier aspirations all over the world.



*With a Mathews Conveyor system the California Associated Raisin Company can fill or empty this warehouse in one-fourth the time and with one-fourth the labor it would require to do it by wheeling, trucking or carrying. And note the floor space saved! Mathews Conveyers are just as practical in your line of business—indoors or out.*

## One Big Labor Problem Solved

**Y**OU can't cut down productive labor without cutting down production. But you can cut down handling labor and thereby actually *increase* production. Here's how:

Convey by Gravity—to and from cars, floor to floor, operation to operation, warehouse to shipping platform, etc. Gravity conveying speeds up production by keeping the lines of supply and output open; hands busy; machines "fed".

Gravity costs nothing—draws no pay; consumes no fuel. Gravity reports every morning; no hands short. Gravity stays on the job; lives forever and never goes on strike. Gravity works most anywhere and carries most anything—boxes or bales, barrels or buckets, bundles or bags, cases or crates, cartons or cans, lumber or bricks, castings or pig, etc.

Gravity conveying saves in a way that can be plainly seen—in smaller

payrolls, lower costs, greater production. Look into it. A letter or postcard brings further information and, if desired, a nearby Mathews branch sales engineer qualified and glad to discuss your particular problems. No obligation.

Mathews systems are the most thorough exponents of gravity conveying on the market. They are engineered systems. Each is specially adapted to the requirements of the business, plant, layout, handling routes of the concern it is to serve. Portable single units for light work, short hauls, etc.

Patented drawn-steel, ball-bearing rollers balanced true and shaped to hold objects to their course. Special rollers for brick and tile, bundled shingles, etc.

**MATHEWS GRAVITY CARRIER CO.**  
147 Tenth Street, Ellwood City, Pa.

Branch Factories:  
Port Hope, Ontario      London, England

Member of Material Handling Machinery Manufacturers Association

**MATHEWS**  
SPEED ECONOMY  
GRAVITY ROLLER CONVEYER





**SONNEBORN PRODUCTS**



# At Last- Leakproof Roofs

The leaky roofs of your factory, outbuildings or employees' cottages can be made leak-proof *for years*, by a single coating of Stormtight.

Thus, Stormtight saves the great cost of re-roofing.

Our chemists have created in Stormtight, a liquid which forms a *thick and elastic coating* which will not crack and let the water through.

Anyone can pour it on cold and brush it flat, and the results will astonish you, if you are used to ordinary roof compounds and paints.

## Stormtight

**FOR USE ON ANY ROOF IN ANY WEATHER**

### The National Roof Protector

is also widely used as a leak preventor on good roofs instead of paint.

Why paint *every year*—save many labor bills by coating good roofs with Stormtight, so that they will stay leakproof for many years.

Apply Plastic Stormtight over bad spots, cracks, along flashings, gutters, etc., and then Liquid Stormtight over the entire roof.

Remember that the established reputation of Sonneborn is our guarantee of satisfaction.

In large and small containers—for composition, metal, paper, gravel or canvas roofs.

### LAPIDOLITH

TRADE MARK

**The Liquid Chemical Which Makes Concrete Floors Dustproof and Wearproof**

It is not the cheapest but is the best, and has become the standard and most widely used. Over a quarter billion square feet of concrete floors have been lapidolized.

Don't let your floors wear away and dust. Lapidolith will save them and the expense of constant repairs.

Write for reference near you, sample hardened concrete block and full particulars.

### Cemcoat

**The Industrial Enamel Paint Which Lasts and Stays White Longer**

Cemcoat stands the severest test. Even on cement it does not crack or peel. Naturally then, on ordinary walls and ceilings it lasts for years.

An occasional washing keeps it white without the cost of repainting.

Order barrel and use five gallons; if unsatisfactory return the remainder; no charge.

All finishes and colors. Send for sample board.

Send for free Demonstration Block showing Stormtight, also paint actually applied to various surfaces, and for booklet—"Leakproof Roofs."

# L. SONNEBORN SONS, INC.

Dept. 23

116 Fifth Avenue

New York

**SONNEBORN**

# IT'S EASY To Save on Your Power Rate

*If you buy power:*

Buy enough for normal use and run the Sterling engine on high loads.

*If you have your own steam:*

Fire enough boilers to carry steady, normal load and use a Sterling on peak loads.



An efficient standby  
High Duty Internal Combustion  
engine for direct connection.  
Can parallel

**STERLING ENGINE COMPANY - - BUFFALO, N. Y., U. S. A.**  
Department C-3

## CORLISS ENGINES



Boilers of All Styles and Sizes  
Murray Iron Works Co.  
BURLINGTON, IOWA  
Incorporated February 1, 1870

Paul Bigelow, 39-41 Cortlandt St., New York City. W. M. Jackson, Bourse Bldg., Phila., Pa.

## CHUSE ENGINES

Single Valve, Poppet Valve Uniflow,  
non-Releasing Corliss; built in  
sizes 100 I.H.P. to 1600 I.H.P.

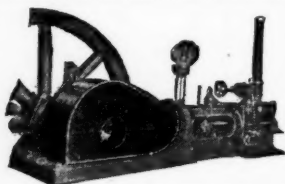
Chuse Engine & Mfg. Co., Mattoon, Ill.

## THE VILTER MFG. CO.

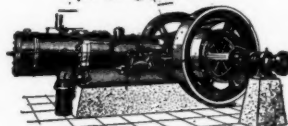
832 Clinton St.  
MILWAUKEE, WIS.

## Corliss Engines

Ice and Refrigerating  
Machinery



20 to 300 H.P.



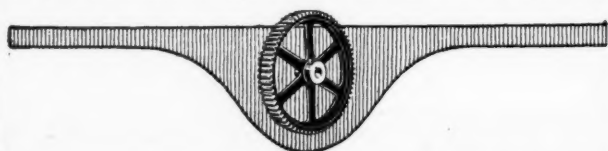
**PRIMM**  
Oil Engines  
Solve power prob-  
lems—Ask us why.

The Power Manufacturing Co. Marion-Ohio

## GEARS

**S**MOOTH running; correct in design, accurate and true to pitch, Caldwell gears are bound to please you. We make all types—machine-molded, cut tooth, mortise gears, worm gears, etc. Caldwell promptness is traditional. It is at your service. Our stocks assure prompt shipment.

H. W. CALDWELL & SON CO. LINK-BELT COMPANY, OWNER  
Dallas, Texas, 709 Main Street—Chicago, 17th Street and Western Ave.—New York, Woolworth Bldg.



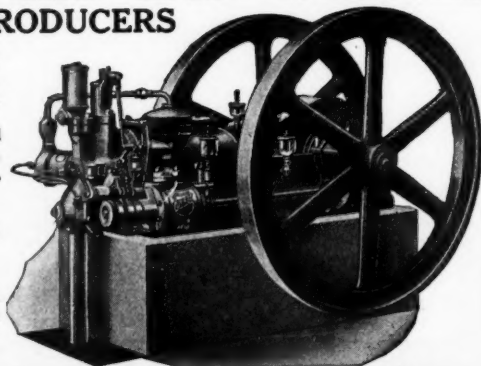
## OIL and GAS ENGINES GAS PRODUCERS

50 years of  
Successful En-  
gine Building.

Unsurpassed  
for Reliability,  
Durability,  
Economy.

Utilize all  
Fuels.

Write us con-  
cerning your  
requirements.



THE OTTO ENGINE WORKS, 3211 Walnut Street, Philadelphia, Pa.



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Designers and Builders  
**Radial Brick Chimneys**

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If you are in the market for the above, get our prices. We are Southern Manufacturers, and not only manufacture, but guarantee our products. We want you to take advantage of our 50 years' experience.

Write us for further information  
and become a satisfied customer.

**SCHOFIELD'S IRON WORKS**  
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RADIAL BRICK AND REINFORCED CONCRETE  
REFRACTORY BRICKWORK

**THE RUST ENGINEERING CO.**  
ENGINEERS AND CONTRACTORS

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Washington

Birmingham



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If you use steam to generate power, every roll of black smoke out of the stack represents a profit in hard, round American dollars that should be going into your profits instead of vanishing in the air.

Bessemer users have proved conclusively that the average fuel cost per H. P. of a Bessemer Oil Engine is one-third the H. P. cost of steam.

Just figure out what this saving would mean to you in one year, in five years, in ten years. Larger profits and dividends or even the difference between red and black figures in the ledger.

Bessemer engineers stand ready to point out savings you can make—savings based on past experience of Bessemer users. Let them serve you.

THE BESSEMER GAS ENGINE CO.  
64 York St. Grove City, Pa.

# BESSEMER OIL ENGINES

15 TO 180 HORSEPOWER

## BOILERS - FLUES - REPAIRS CONTRACTORS AND MILL CASTING

Capacity Boring Mill up to 20 ft.

Lathes up to 62 in. x 25 ft.

100 Large and Small Machines and Men for New and Repair work.

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# FOSTER SUPERHEATERS

A necessity for turbine protection, engine cylinder economy and utilization of superheat for all its benefits.

**POWER SPECIALTY COMPANY**

Boston, Philadelphia, Pittsburgh, Kansas City,  
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## THE BABCOCK & WILCOX COMPANY

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Builders since 1868 of  
Water Tube Boilers  
of continuing reliability

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DALLAS, TEX., 2001 Magnolia Building  
HONOLULU, H. T., Castle & Cooke Building  
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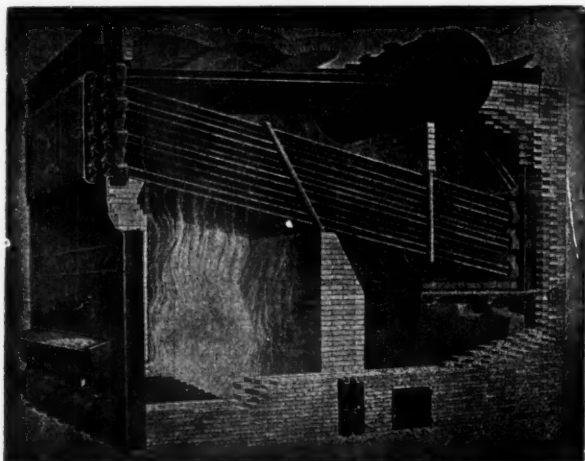
### WORKS

Bayonne, N. J.  
Barberton, Ohio

Makers of Steam Superheaters  
since 1898 and of Chain Grate  
Stokers since 1893

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SAN FRANCISCO, Sheldon Building  
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SAN JUAN, PORTO RICO, Royal Bank Building



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SECTIONAL — ALL STEEL  
NO STAY BOLTS — NO BENT TUBES  
ONE HAND HOLE COVERS FOUR TUBES  
SIZES TO 3000 H. P. — PRESSURES TO 500 LBS.

WRITE FOR OUR NEW CATALOG



**Springfield Boiler Co.**  
Springfield, Illinois

## If you have Ice making, or Refrigerating Problems



on which you require expert advice, we will give you the benefit of having your problem studied and suggestions sent you by men who make that problem their life work.

This information is at your service.

Write

**THE ARCTIC ICE MACHINE CO.**  
CANTON - - - - - OHIO

## Walsh & Weidner

WATER TUBE

## BOILERS

Quality, safety, efficiency and simplicity of design, to say nothing of their long life, high economy and low maintenance have proven the success of Walsh & Weidner Water Tube Boilers. Built in sizes up to 1,500 H.P. and for working pressure to and including 300 lbs. per square inch.

Write for our Water Tube Bulletin

**The Walsh & Weidner Boiler Co.**

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New York  
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Memphis

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## HARTLEY BOILER WORKS

BUILDERS OF HIGH GRADE BOILERS

Stand Pipe, Self-supporting Stacks, Tanks, Towers, all kinds of Structural and Plate Iron Work, Boiler Fronts, Grate Bars, all kinds of Castings.

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## CHARLESTON DRY DOCK & MACHINE CO.

Successors to VALK & MURDOCH CO.

**MARINE AND STATIONARY BOILERS**  
Repairs to Steel and Wooden Vessels

8,000-ton Dry Dock - 1,500 and 600-ton Marine Railways  
CHARLESTON, S. C.

## ICE MAKING and REFRIGERATING PLANTS

Ammonia Compression      Ammonia Absorption  
CO<sub>2</sub> Compression

Consultation on any Refrigerating Problem Invited.

**YORK MANUFACTURING CO., York, Pa.**

## CARBONDALE REFRIGERATING MACHINERY

Exhaust Steam Absorption and  
Ammonia Compression Systems

NEW YORK CHICAGO BUFFALO PITTSBURGH KANSAS CITY  
LOS ANGELES PHILADELPHIA NEW ORLEANS BALTIMORE

## WATER COOLING TOWERS SPRAY COOLING PONDS IMPACT AIR WASHERS

Ask for Circular 9B

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## CORK INSULATION

Pure Sheet Cork Board, Granulated Cork, Asphaltum for erection of Cork Board, Cork Tile, Waterproofing Compounds, Cold Storage Doors, Waterproof Insulating Paper. Special Instruction for applications sent free.

**PAUL E. FLOTRON COMPANY, Inc.**  
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SUCCESSOR TO

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THE EMPIRE COAL COMPANY  
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GENERAL OFFICES: FIRST NATIONAL BANK BUILDING

**BIRMINGHAM, ALA.**

Sole Producers of

**EMPIRE, SIPSEY, CORONA, TOWNLEY,  
PAYNES BEND AND HULLS COALS**

MINES AT

Empire, Ala. on St. Louis-San Francisco Rwy.	Patton, Ala. on Southern Rwy.
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**ANNUAL PRODUCING CAPACITY IN EXCESS OF 1,500,000 TONS OF  
HIGH-GRADE CAREFULLY PREPARED COALS**

Facilities on St. Louis-San Francisco Railway, Southern Railway and Warrior River  
insure prompt, regular and superior service to our patrons

*Cable address "DeBARDELEBEN, BIRMINGHAM, ALA."*

Export, Bunker and Towing Business Conducted Through

## W. G. COYLE & COMPANY, Inc.

General Offices: Whitney Central Bank Building  
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**EXPORT AND BUNKER COALING STATIONS AT  
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CORONA, MONGAH, ELLA ANDREWS

*Cable Address "COYLE, NEW ORLEANS"*

Stevens Hytest Vulcan

**Stevens**

BROS. AND CO.

**Firebrick**

ATLANTA

GEORGIA

**ROBERTS FILTERS**  
FOR  
**CLEAN WATER**

Ideally adapted for installation in textile mills; raw water ice plants; laundries, and for all industrial or municipal requirements.

*"Write for Descriptive Literature."***Roberts Filter Manufacturing Co.**

DARBY (PHILA.) PENNA.

NEW YORK OFFICE—FLATIRON BUILDING.

**THE OHIO REFRACTORIES CO.**  
IRONTON, OHIO**HIGH GRADE  
FIRE BRICK****GROUND  
FIRE CLAY****DECALSO****Water Minus All Hardness**

insures even dyeing; smooth running threads; reduction in thread and needle breaks in knitting.

**AMERICAN WATER SOFTENER COMPANY**

S. E. Cor. 4th and Lehigh Ave.

PHILADELPHIA

**FIREBRICK****The ASHLAND  
FIREBRICK CO.**  
ASHLAND, KENTUCKY.**FIRE BRICK  
FIRE CLAY****CANNELTON SEWER PIPE CO.**  
CANNELTON - INDIANA - U. S. A.**FIRE BRICK FOR OIL FIRED FURNACE**

After repeated tests and a series of experiments we have perfected a fire brick which will give a maximum of service in oil fired heating furnaces.

*Write for full information***SAVAGE MOUNTAIN****FIRE BRICK COMPANY**

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**THERMOLITH**  
FIRE CEMENT*"Makes the Weakest Point the Strongest"***HARBISON-WALKER REFRACTORIES CO.**World's Largest Producers of Refractories  
Pittsburgh, Pa. U.S.A.**—PLIBRICO—****FOR BOILER SETTINGS and BAFFLES  
BETTER THAN FIRE-BRICK**Can Be Installed By Inexperienced Labor:  
Will Withstand 3100 Deg. Temperature —  
Shipped in Steel Containers only**JOINTLESS FIRE BRICK CO.**  
OFFICE AND FACTORY 1138 CLAY ST. CHICAGO  
Solely Stock in the U.S.A. for the production of this —**ALABAMA  
CLAY PRODUCTS CO.***Manufacturers***FIRE BRICK FIRE CLAY**  
Birmingham - - Alabama**"Mount Savage"  
Fire Brick****UNION MINING COMPANY**Plant:  
Mount Savage, Md.Gen'l Office:  
Baltimore, Md.**THE CAMBRIA CLAY PRODUCTS CO.**  
MANUFACTURERS**SEWER PIPE - FLUE LINING - WALL COPING  
FACE BRICK - FIRE BRICK - FIRE CLAY  
HOLLOW BUILDING TILE**

Office and Works - BLACKFORK, OHIO

**WALSH FIRE BRICK  
AND SHAPES****WALSH FIRE CLAY PRODUCTS CO.**  
ST. LOUIS, MO.

CHICAGO

NEW YORK

**HAND FIRE BRICK MADE**

Made from the famous Olive Hill, Kentucky flint and semi-flint clays. They are hand made throughout.

**BRANDS****Ironton "Steel" and Ironton "Peerless"****THE IRONTON FIRE BRICK COMPANY**General Office & Works  
IRONTON, OHIOMines  
BRADMYER, CARTER CO., KY.



Fig. 600  
Inside View

## LUNKENHEIMER "CLIP" Gate Valves

Their simplicity of design, compactness, high grade materials, renewability of all parts and the facility with which they may be assembled and disassembled for cleaning and repair, insure the maximum durability, serviceability and economy in maintenance, warranting their adoption for any service—steam, water, gas, oil, etc.—where the pressure does not exceed 100 pounds.

Obtainable in the Iron Body Bronze Mounted Pattern, or for handling liquids which attack bronze alloys, in the All Iron Pattern, sizes  $\frac{1}{4}$  to 6 inches inclusive.

Write for Booklet 505 F.B.

"America's Best since 1862"

THE LUNKENHEIMER CO.

LARGEST MANUFACTURERS OF  
HIGH GRADE ENGINEERING SPECIALTIES  
IN THE WORLD  
NEW YORK CHICAGO CINCINNATI U.S.A. BOSTON  
EXPORT DEPT. 128-129 LAFAYETTE ST., NEW YORK

### LUNKENHEIMER PRODUCTS

A comprehensive line of Engineering Appliances offering a type and size to meet all prevailing conditions.

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Bronze, Iron, Steel Globe, Angle, Cross, Check, Gate, Throttle, Non-return, Blow-off, Pop Safety, Relief, Whistle, etc.

#### BOILER MOUNTINGS

Non-return, Pop Safety and Blow-off Valves; Water Columns, Water Gauges and Gauge Cocks, Injectors, Low Water Alarms, Fusible Plugs.

#### LUBRICATORS

For Steam, Gas, Gasoline, Oil, Compressor and Pump Cylinders; Gravity Feed or Hydrostatically Hand or Mechanically Operated.

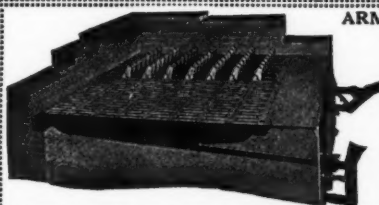
#### OIL AND GREASE CUPS

Glass or Bronze Body Oil Cups with or without Sight-feed; Automatic Feed, Cup or Plunger Screw Feed Grease Cups of Bronze, Iron or Steel.

Whistles, Cocks, Pipe Fittings, Unions, Ejectors, Air Muzzles, Automotive Accessories, Etc.

Fig. 620  
Quick Operating

5-20-62



### ARMSTRONG INTERLOCKING SHAKING GRATES

#### Thirty Days' Free Trial

We will install Armstrong shaking Grates in competition with any other grate made and allow you thirty days to make any test you care to. If the saving in fuel and the increased efficiency of your boiler is not satisfactory, you may remove the grates at our expense. Armstrong Mfg. Company 252 Ludlow Ave., Springfield, O.



## POWELL VALVES

(Especially The White Star Valve)

THE WM. POWELL CO.

DEPENDABLE ENGINEERING SPECIALTIES

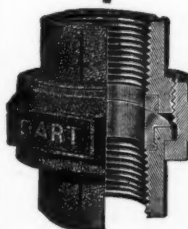
CINCINNATI

## THE QUALITY UNION

The Dart is the Quality Union, and quality is always cheapest.

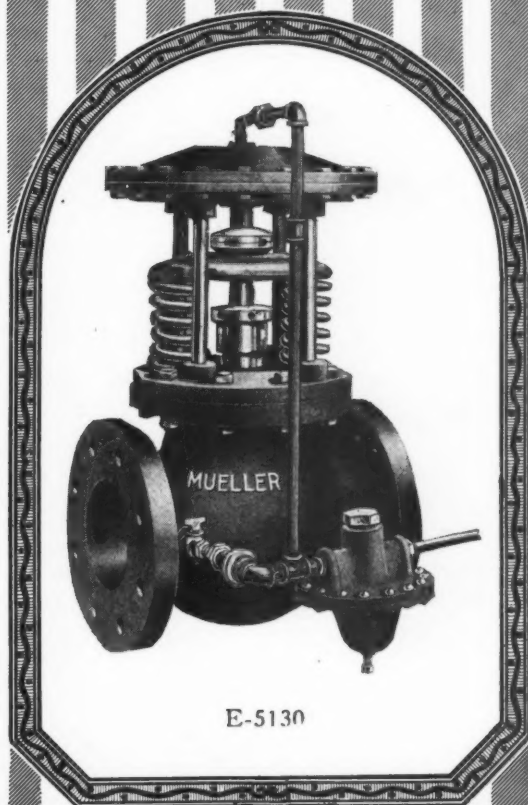
The Dart is made of Malleable Iron, with extra heavy pipe ends and with double seated ball joint formed of bronze rings.

IN DART UNION THERE IS DOUBLE STRENGTH



E. M. DART MFG. CO.  
PROVIDENCE, R. I.

The Fairbanks Company, Sales Agent  
Dart Union Co., Ltd., Toronto, Canada



E-5130

## MUELLER Reducing and Regulating Valves

This **MUELLER** Valve, E-5130, will make any desired reduction and maintain a constant and uniform delivery pressure.

Scientifically designed, it embodies the **MUELLER** standards of precision, and is an absolutely dependable valve for either steam or oil, where exacting conditions exist.

The **MUELLER** experts will gladly help solve your regulating problems, upon request, and without obligation.

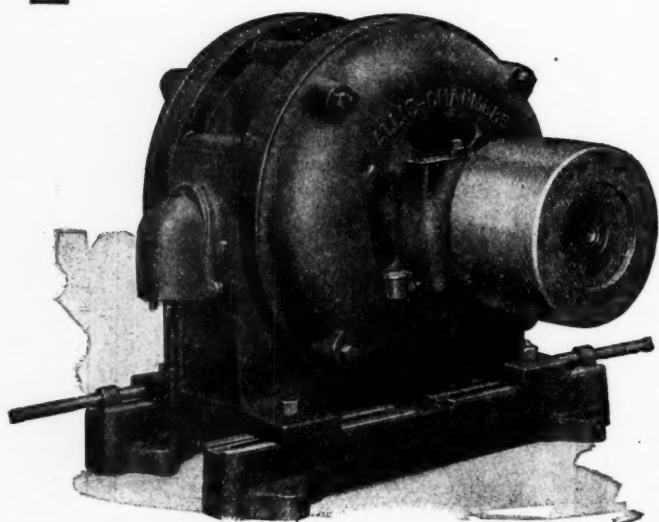
H. Mueller Manufacturing Co.,  
Decatur, Ill., U. S. A.

New York City, 145 W. 30th St. San Francisco 635 Mission St.

Sarnia, Ontario, Canada

Mueller Metals Co., Port Huron, Mich., Makers of "Red Tip" Brass Rod; Welding Rod; Brass and Copper Tubing; Forgings and Castings in Brass and Bronze; also Brass Screw Machined Products.

# ALLIS-CHALMERS



Type "AR" Belted Motor

## Polyphase Induction Motors

Constant and  
Variable Speed

60 and 25 Cycle

For All Standard Speeds

*Send for Bulletin*

### Type "AR" and "ARY"

Of new design embodying all improvements and advances made during recent years.

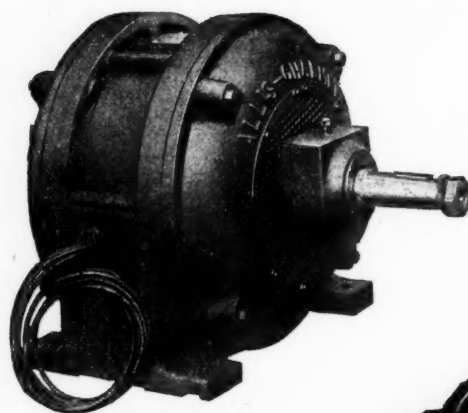
Designed with exceeding ruggedness, cast steel in place of cast iron being a prominent feature.

Method of ventilation is very effective, resulting in even cooling and avoiding of "hot spots."

Bearings are of liberal design with spacious oilwells. Insulation is of highest grade, stator being treated with baked-on insulating varnish making the whole structure dust and moisture proof.

Motors are for floor or ceiling mounting, being provided with very stiff and substantial rails.

Conduit terminal boxes are regular equipment.



7 1/2 H.P., 1720 R.P.M.  
Spinning Frame Motor.



1/2 H.P., 1760 R.P.M.  
Loom Motor.



**ALLIS-CHALMERS**  
MANUFACTURING COMPANY

MILWAUKEE, WISCONSIN. U.S.A.





# Better Light Needs No Argument

*You know  
it will pay if  
it produces  
greater  
Accuracy  
and Speed  
without  
Eye-strain*

## How to Get It is the Problem

It is primarily a problem for illuminating engineers, who are abreast of modern experience and who are backed by a great electrical institution with the laboratories, factories and equipment to serve industry properly.

The Westinghouse Illuminating Engineering Bureau has this advantage in solving your lighting problems. Their service is at your disposal.

WESTINGHOUSE ELECTRIC & MFG. COMPANY  
Offices in All Principal Cities • Representatives Everywhere



# Westinghouse

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## MACHINE BRONZE

Solid and Cored Bars  
in 12" Lengths

Stocked by us in convenient sizes for immediate delivery.

Ask for list giving sizes and weights



**SMITH-COURTNEY COMPANY**  
SUPPLIES AND MACHINERY, RICHMOND, VA.

For economical, efficient and reliable welds  
utilize

## ALLAN POLYPHASE ELECTRIC ARC WELDERS

ALLAN MANUFACTURING & WELDING COMPANY, INC.  
726 Washington St. Buffalo, N. Y.

## ACME ELECTRIC WORKS, INC.

Electric Motors, Switchboard and Equipment of all kinds. *Best equipped shop in the South for rewinding and motor repairs.*  
Let us know your wants.

316 Bank St. Norfolk, Va.

**Chattanooga** ARMATURE WORKS.  
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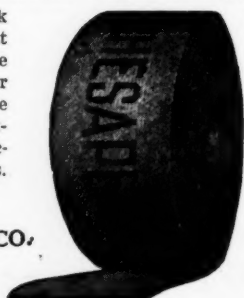
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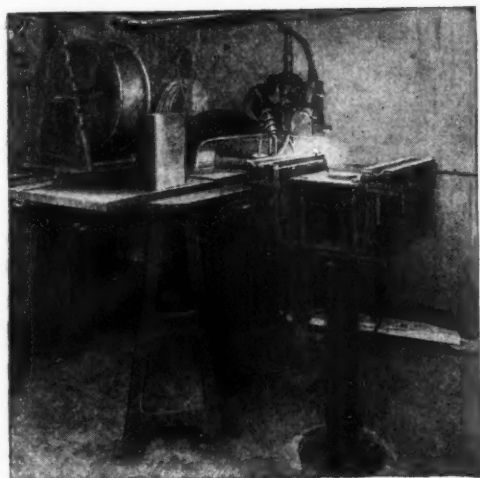
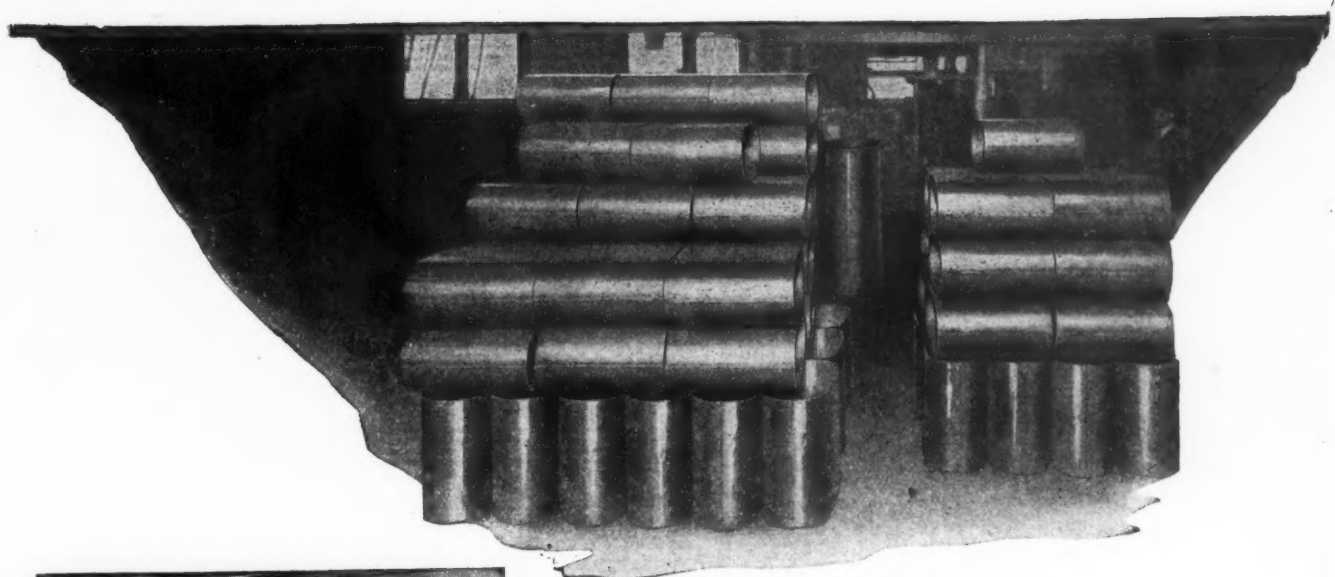
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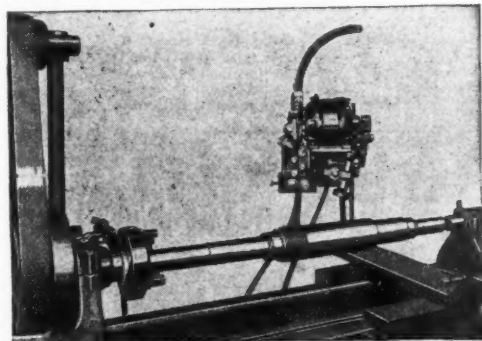
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*Straight seam welding of tanks by G-E Automatic Arc Welder.*



*Building up shaft by G-E Automatic Arc Welder.*

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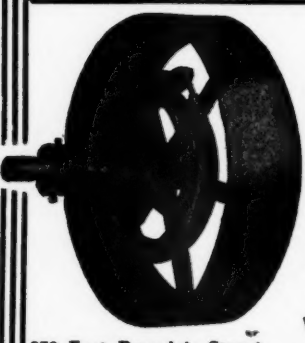


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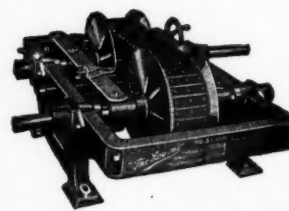
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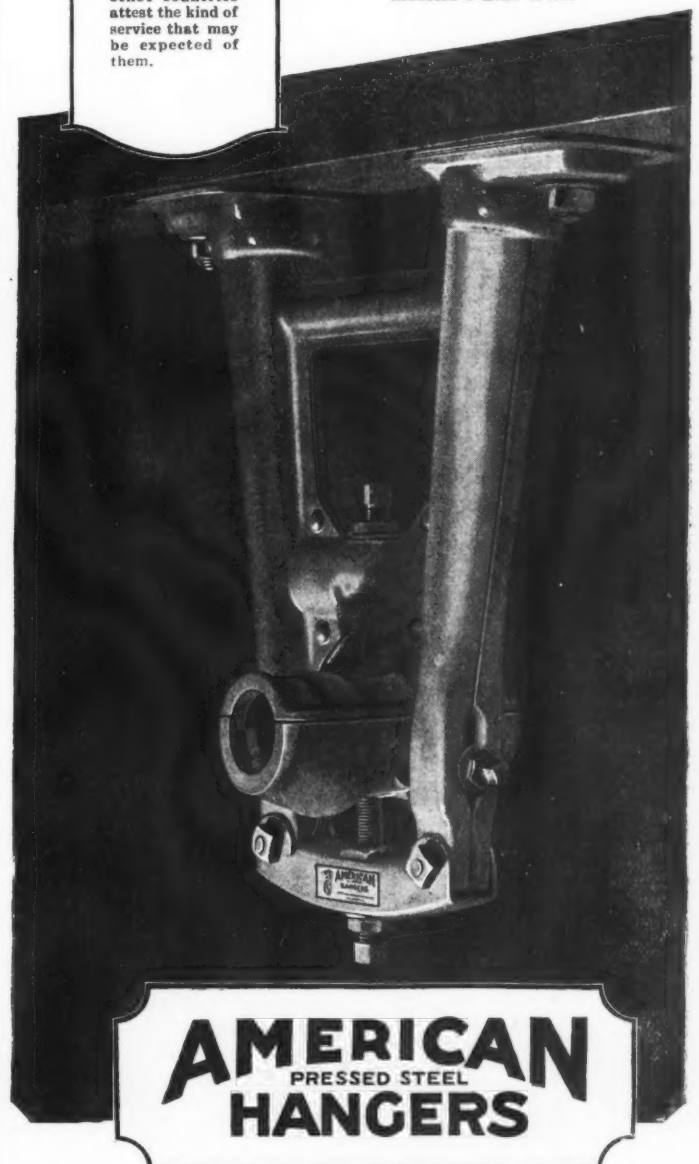
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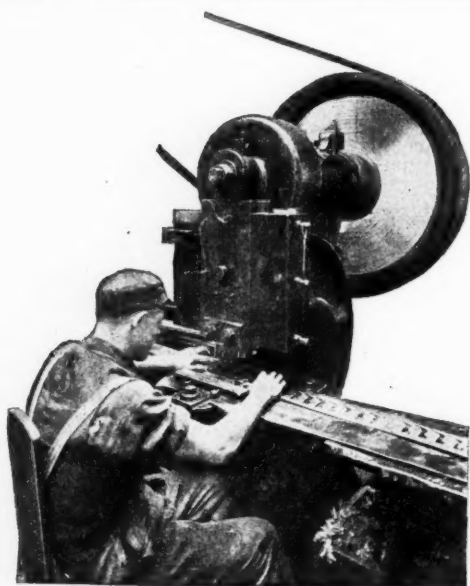


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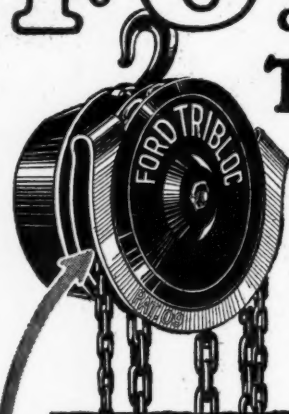
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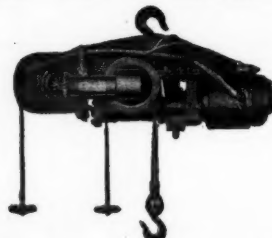
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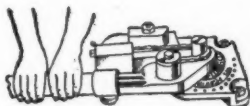
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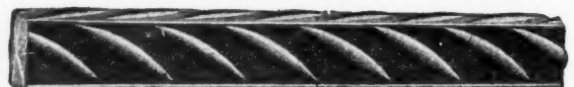
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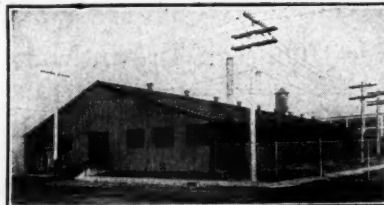
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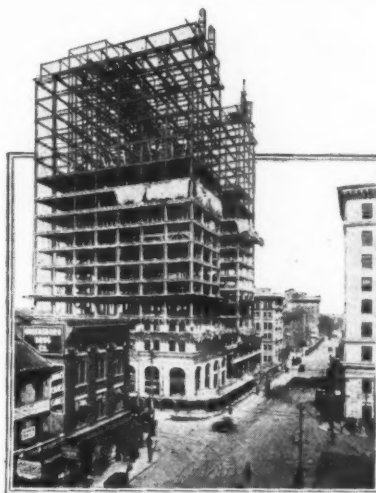
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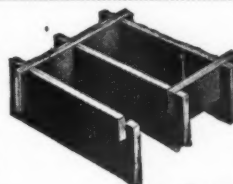
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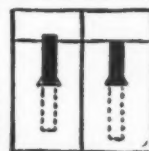


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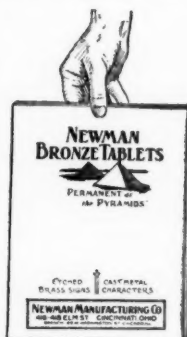
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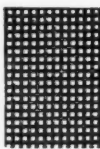
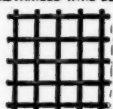
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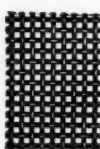
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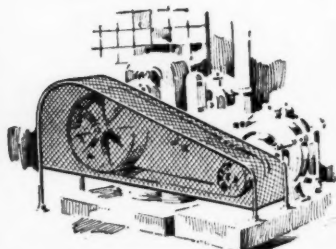
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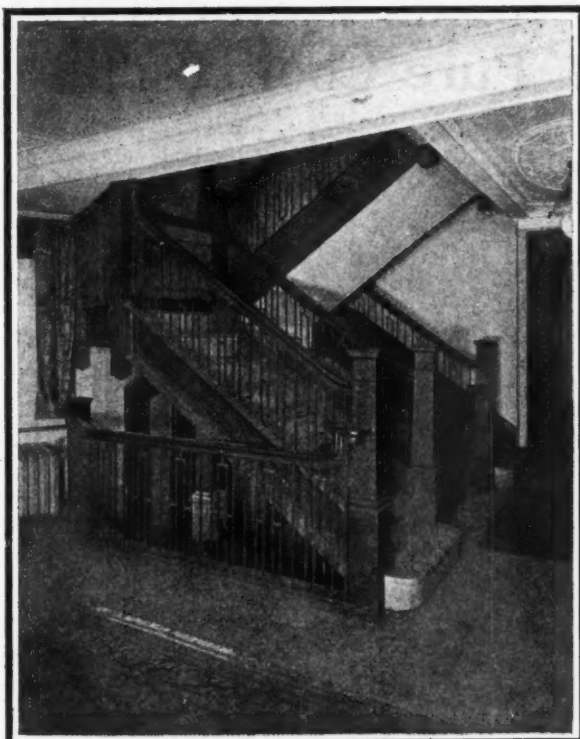
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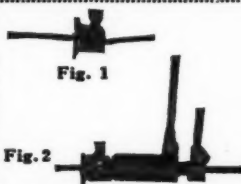
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*See Sweet's Architectural Catalog  
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### Clear Aisles Around The Danger Zone

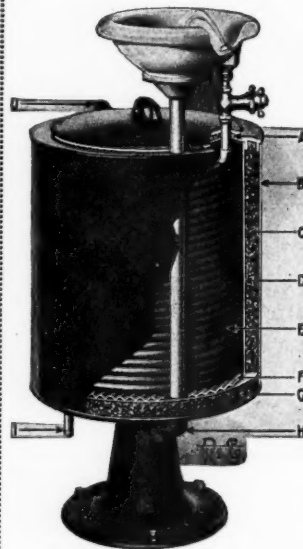
A place for everything and everything in its place will enable your workmen to devote their undivided attention to their work. Cluttered aisles around dangerous machinery are a menace to life.

## GF STEEL SHELVING

Will put everything in its place and save valuable floor space for other operations. It is the strongest shelving made and will last as long as your factory. The longer a workman searches for parts, the more overhead is added to your costs. GF Steel Shelving systematizes your storage problems and places everything at a moment's reach.

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Prevent the slump in production by installing Rundle-Spence "Vertico-Slant" stream drinking fountains, which can supply your workers with plenty of cool, refreshing drinks which will restore energy for production.

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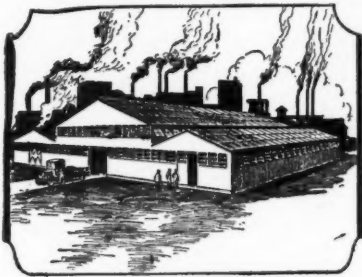
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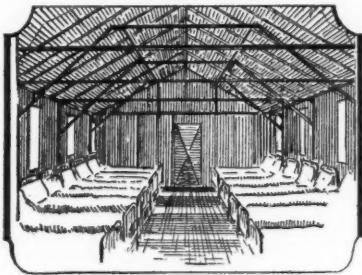
ROCHESTER, N. Y.

Factory:  
Anderson Ave.



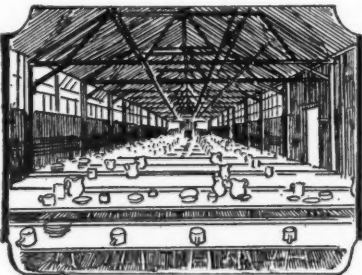
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Large and small factories, with any arrangement of windows and sky lights, to provide immediate use at lowest cost.



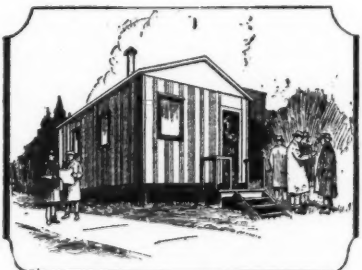
**Bunk Houses**

Many Blaw-Knox Buildings are used for housing men. The quick erection is a valuable feature here.



**Mess Halls**

Unforeseen conditions sometimes make extra buildings necessary. You don't take carpenters off the job when you do it the Blaw-Knox way. Common labor does the trick.



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Machine-made buildings are one of the greatest developments today.

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**Blaw-Knox Company**

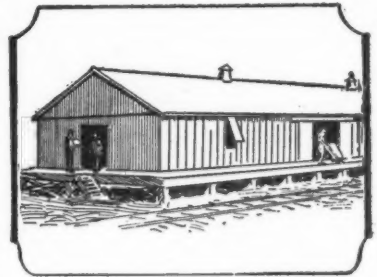
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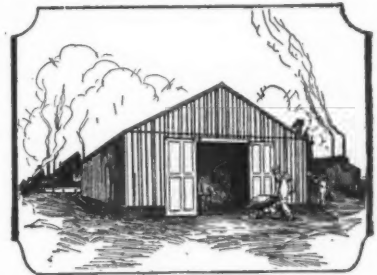
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Baltimore

Birmingham  
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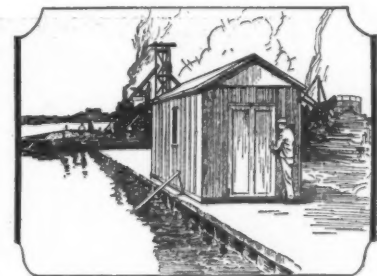
**Cement Sheds**

Here the leak-proof roof and walls of Blaw-Knox Buildings are a valuable feature. No need to paper the roof—it can't leak.



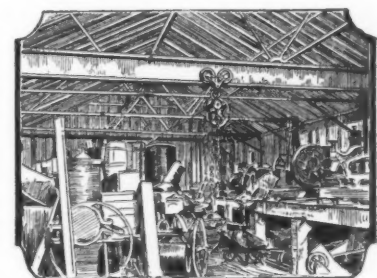
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Nothing more thief-proof than a steel building for storing valuable tools.



**Pump Houses**

You know equipment should be protected but sometimes you can't spare the time to build. The speed feature of Blaw-Knox Buildings helps out here.

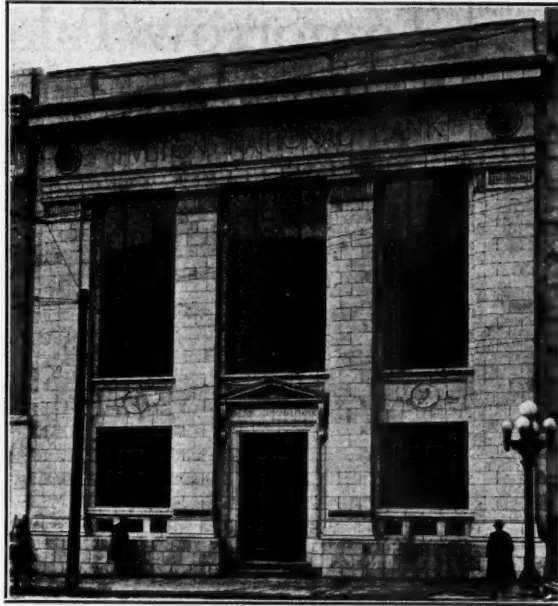


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One big advantage of Blaw-Knox Buildings is that they are so quickly and easily enlarged. You can have the room you need when you standardize on Blaw-Knox Buildings.

# BLAW-KNOX STANDARD BUILDINGS

*Copper Bearing - Galvanized - Steel*



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Southern Ferro Concrete Co., Builders*



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**Atlanta Terra Cotta Company**  
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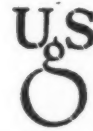
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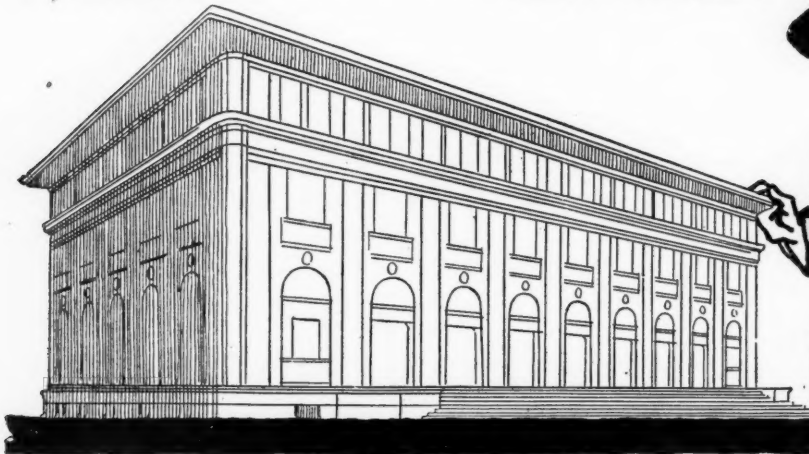
The concrete pits and walls of the pipe tunnels in this post office leaked badly.

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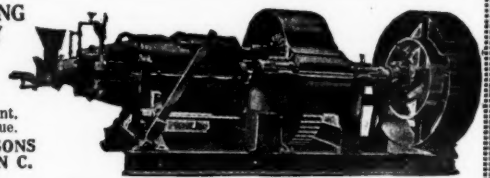
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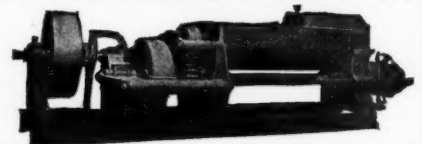
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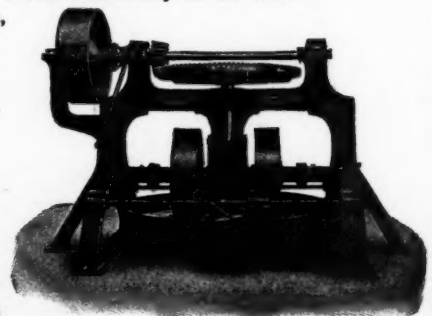
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 Write for prices. State quantities and kinds of Tile wanted and when shipments are desired.  
 We are shipping into 19 States. We please others, we will please you.  
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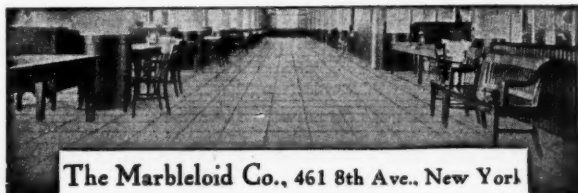
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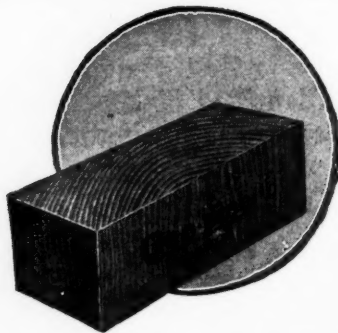
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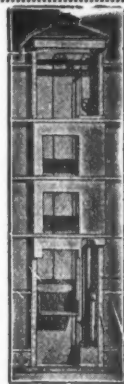
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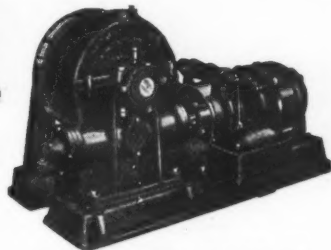
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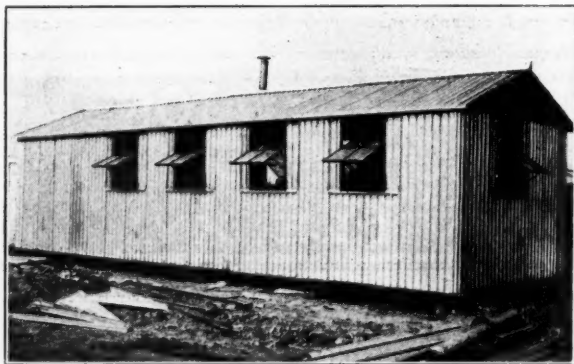
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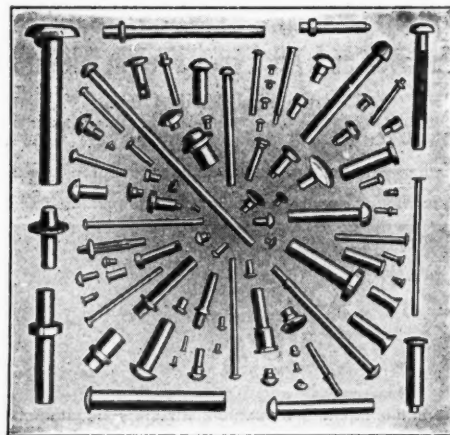
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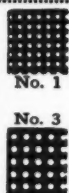
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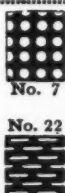


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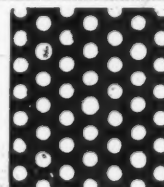
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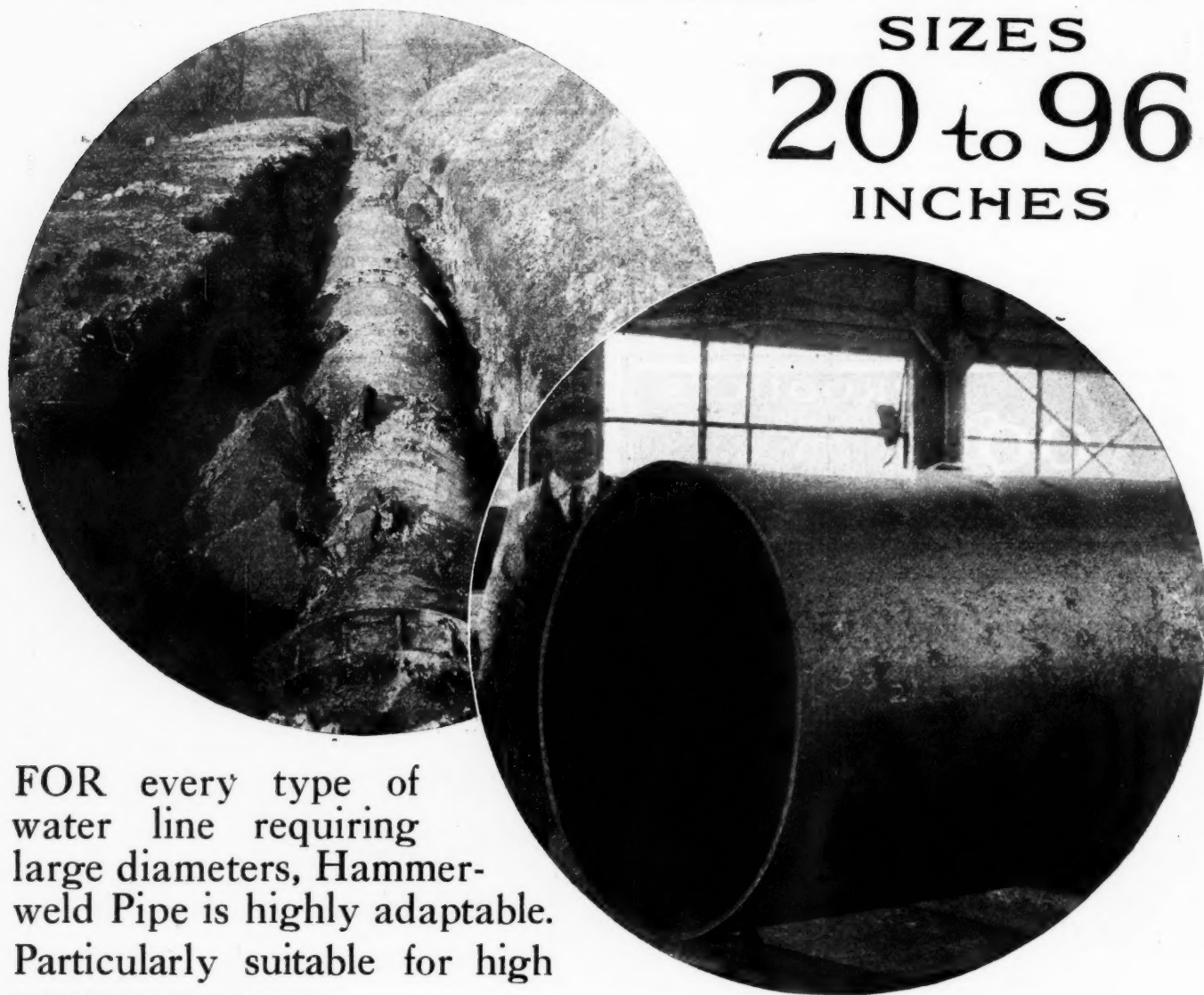
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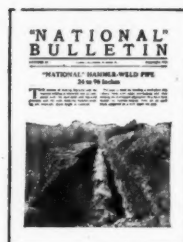


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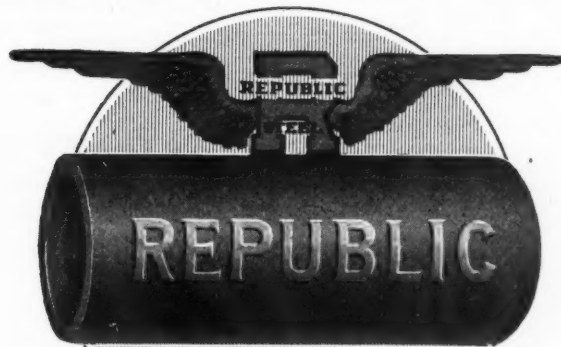
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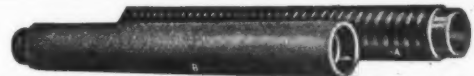
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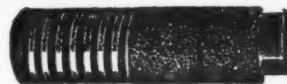


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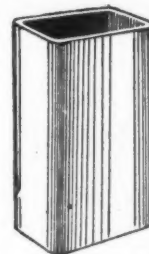
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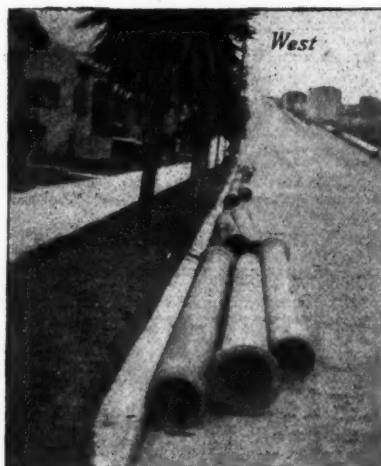
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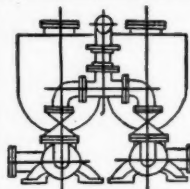
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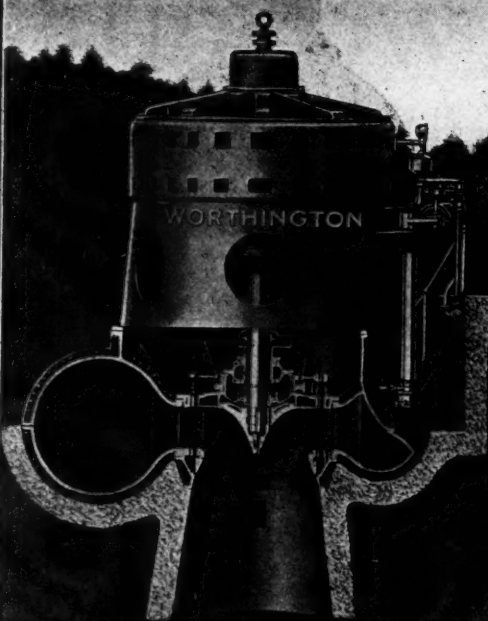
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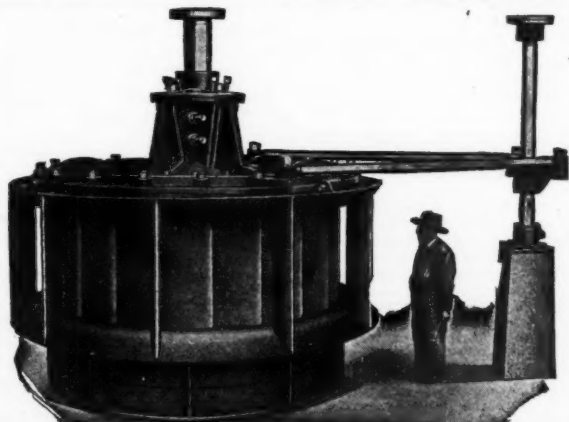
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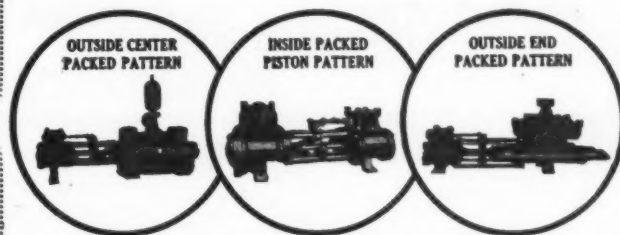
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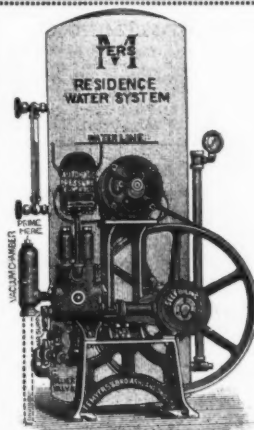
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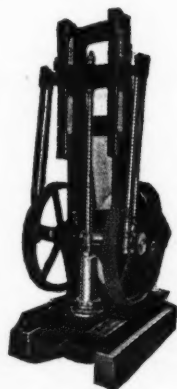
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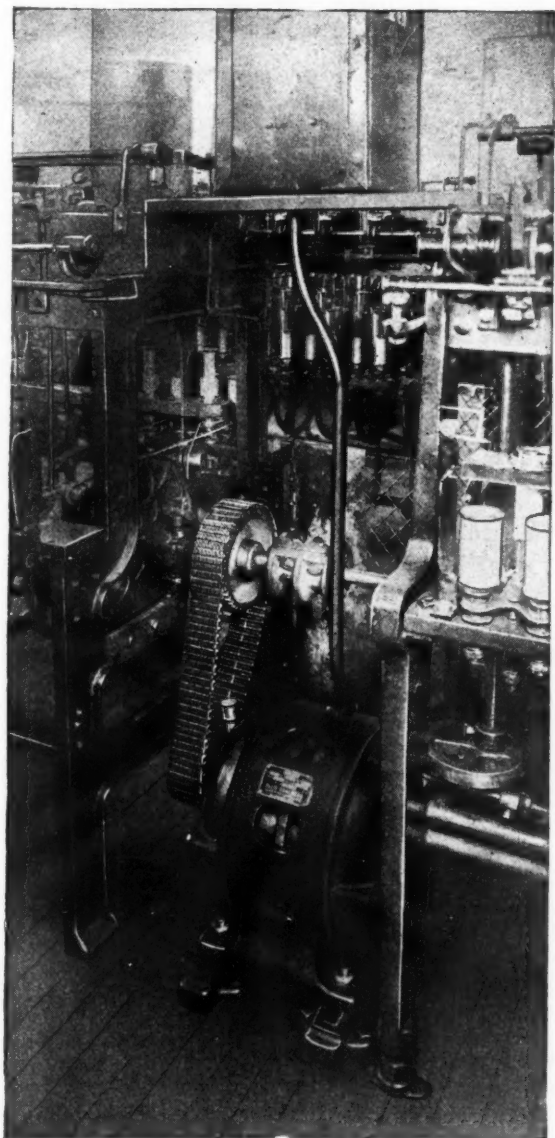
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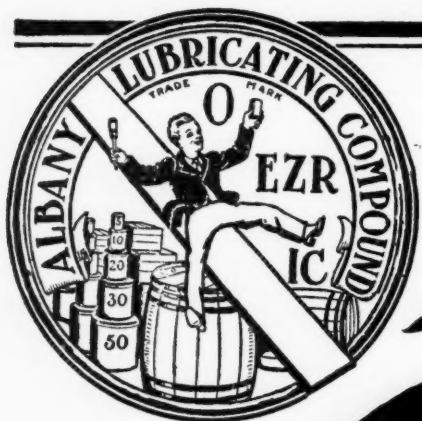
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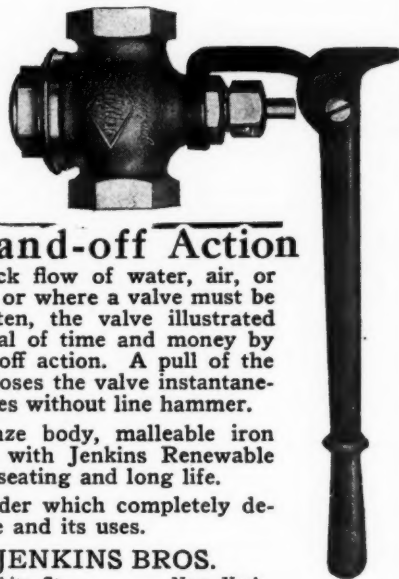
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**3—LOADING FROM PILES.** In this case, the material handled is oyster shell, and four Type U Barber-Greene carry it from stock piles to barges. New Haven, Conn.

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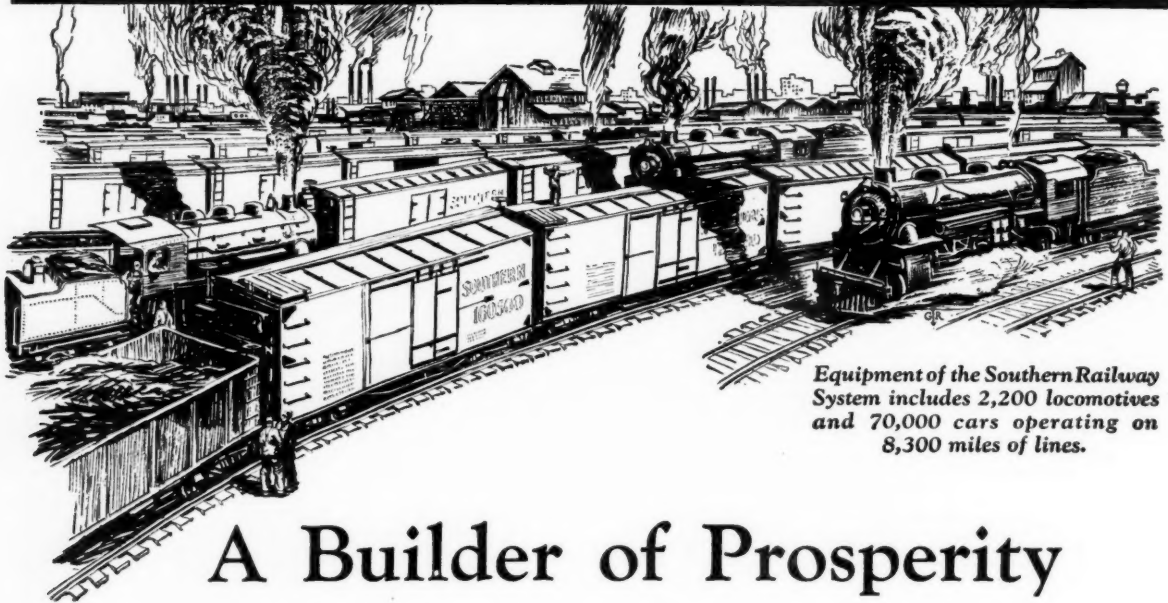
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For every dollar collected from the South we gave back \$1.17.

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# Manufacturers Record

Exponent of America

SEPTEMBER 20, 1923

Volume LXXXIV

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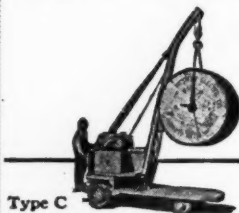
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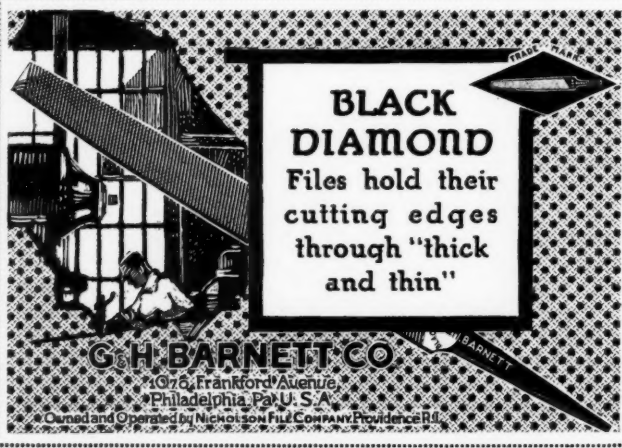
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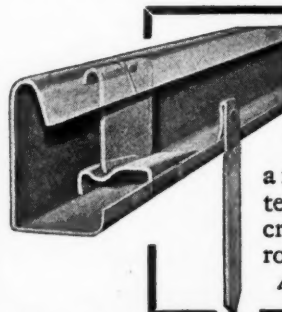
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Weekly. }

BALTIMORE, SEPTEMBER 20, 1923.

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## THE SOUTH IS NOT A LAND OF "REVOLUTION" IDEAS.

**A** WELL known railroad official of the South in a letter to the MANUFACTURERS RECORD, says:

"By the way, with reference to the pessimism in the wheat growing regions of the West, it is I think a very significant fact that although in the past, on occasions, the South has been hard hit by unfavorable market conditions for its principal crops, never do I recall having heard the ugly word "revolution" muttered in connection with any disastrous market conditions existing in this section."

The statement is correct. The tremendous depression which the South suffered at the beginning of the European War when it could not market its crops, and later on when deflation bankrupted many of its farmers, produced no talk of revolution. That kind of talk is left to the wild and woolly West, merely because some parts of the West are suffering from depression in wheat. But the depression in wheat is triflingly small as compared to what the depression in cotton was. Not all wheat growers by any manner of means have a revolutionary spirit; a large proportion of them are as sound and sane and as good Americans as are the Anglo-Saxon people of the South; but there is a very large foreign-born wheat growing element in the West that is easily led astray by the radicalism that is rampant in that section.

There is no "revolution" talk in the South, and there will not be. General Grant's statement made more than forty years ago that the heavy inrush of foreigners might some day endanger this country to such an extent that it would only be saved by the Anglo-Saxonism of the South, may yet prove true. The South will not permit the revolution talk of some radicals in the West ever to seriously menace the future of this country. Once the nation bitterly assailed the slogan that the "South was in the saddle," but the time may come when the "South in the Saddle" will be looked upon by all patriotic Americans as the salvation of the country from that radicalism which is so rampant in some other sections.

## AUGUST EXPORTS INCREASE, IMPORTS DECREASE.

**M**ERCHANDISE valued at \$313,000,000 was exported during August compared with \$301,774,517 worth in August, 1922. Our imports during August were valued at \$275,000,000 compared with \$281,376,403 in August, 1922, showing a decline in import values of \$6,376,000.

The excess of exports over imports in August was \$38,000,000 and for August one year ago the excess of exports was \$20,398,000.

During the eight months ending August, the total value of exports was \$2,561,675,214, or an increase of \$138,140,079 compared with the corresponding period of 1922. The total value of imports for the eight months ending August was \$2,650,200,610, or an increase compared with the eight months ending August, 1922, of \$697,644,558. At the end of the eight months ending August, 1922, the value of exports exceeded imports by \$470,979,083; while for the eight months ending August, 1923, the United States purchased abroad \$88,525,396 more goods than it sold to foreign countries.

In a six months summary of world trade by the Foreign Commerce Department of the Chamber of Commerce of the United States, the real significance of our export and import trade is shown in the quantity figures presented.

Gains in volume of exports of 54 principal commodities from January-June, 1923, over the corresponding six months of 1922, numerically outnumber the losses, and those gains are not of insignificant commodities. Even among the commodities showing recent declines, thirteen out of twenty-three exceeded the pre-war quantities by from 12 to 1866 per cent. Gains generally are ahead of pre-war quantities. Wheat exports in volume since the war have been well above pre-war figures, and even for the first half of 1923 were 57 per cent above.

Corn exports were lower in this period. Since 1921, exports of corn have been greatly above pre-war quantities, and are still 79 per cent above. A number of corn products in the meat line show a good post-war record not only as to quantity, but likewise as to price, which must also be taken into consideration.

Wheat flour has shown a downward tendency since the war, but is still 33 per cent above the pre-war exports. Rice has shown decreasing exports since 1921, but for the first half of 1923 was still 2112 per cent above pre-war exports. Canned milk exports were 1009 per cent higher and sugar 936 per cent above pre-war exports, though on the decline compared with last year.

In the 54 items of chief exports weighing more than 25,000 tons, there are 30 gains and 24 losses. Except in foodstuffs, the losses are not large, and the gains in many lines represent comfortable increases in the volume of our export trade.

Noteworthy increases are bauxite ore, 562 per cent; clays, or earths, 130 per cent; coal and coke, 123 per cent; asphalt and bitumin, 75 per cent; gas and fuel oil, 75 per cent; crude



petroleum, 68 per cent; automobile parts, 68 per cent; glassware, 68 per cent; lard, 62 per cent; rosin, 61 per cent; and zinc spelter, 60 per cent. Exports of sulphur dropped 6 per cent below the first six months of 1922, though shipments were almost 900 per cent above pre-war quantities.

Some lines of iron and steel products, though showing recent losses are still far above pre-war levels. Iron and steel plates, sheets, skelp and strips, declining since 1920, remained 55 per cent above quantities exported before the war. A similar story may be told of iron and steel bars and rods, exports of which were 12 per cent greater than before 1914.

Among 22 exports, largely specialties, the only ones showing a loss in quantity below the first half of 1922 are cattle, locomotives and the textiles, cotton cloth and underwear, artificial silk hosiery, and broad silks.

Imports for the first six months of 1923 show a general gain over pre-war quantities. Out of sixty leading imports for January-June, 1923 compared with the corresponding six months of 1922, only seven show a decrease in quantity. Out of twenty leading imports for the first half of 1923, only one, pyrites, declined compared with pre-war imports. The gains range from 21 to 5100 per cent, with figures for fertilizers and paper-base stocks lacking.

### PROGRESS OF THE OPEN SHOP MOVEMENT.

**A**N impressive instance of the spread of the open shop movement is found in the announcement from New York that R. Hoe & Co., prominent manufacturers of newspaper printing presses and other machinery, are now operating their plant on an open shop basis as a result of a strike of machinists and tool makers on August 2, which, the company stated in a notice to the strikers, was in violation of an agreement with it and despite the fact that two advances in wages have been made this year, and that the strikers were paid higher wages than any other leading machine shop pays in this section of the country and that working conditions are fully as good as in any shop of the kind.

The strikers were invited to return by August 27 under the wage rates and conditions of August 1 and as they did not do so the company proceeded to carry out its announced purpose to operate the works under open shop conditions "in name and in fact" and on a basis of 48 hours per week, to pay fair wages similar to those paid for similar work and according to the ability and experience of individual workers. Moreover, the company announced that it would institute a system for handling all questions of labor and working conditions directly with its employees without the intervention of any non-workers. The men were further told that no compromise is possible as the company cannot afford any further advance in wages at this time. Richard Kelly, president of the firm, is quoted as saying that many applications for work under the open shop plan have been received and that the works will soon be running under normal conditions.

This is only one of many instances of revolt on the part of manufacturers against the tyrannical domination of union leaders who cause strikes frequently without either the hearty consent or approval of the workers who are directly concerned, the men being often coerced into striking through fear of expulsion from their unions with consequent impairment of their ability to obtain work elsewhere unless in shops outside of the unions. Consequently union tyranny is working along lines that promise to make the workmen of the country really free to work or not to work as each individual may choose. Numbers of journeymen in various trades have plainly manifested their disapproval of many union leaders' methods, realizing that the workers are being used merely as pawns in the game of labor union politics.

### EFFECT OF "INVISIBLE" ITEMS ON OUR FOREIGN TRADE SHOWS WE ARE TENDING TO BECOME A DEBTOR NATION.

**T**HE Department of Commerce has completed an exhaustive investigation into the volume of "invisible" exports and imports for the year 1922. These items, embracing the movement of capital, and the movement of current items, such as interest, remittances of emigrants, tourist expenditures abroad, ocean freight rates, etc., have now come to be of such a volume as to entirely dominate what is known as the "favorable" or "unfavorable" trade balance from merchandising account, states Secretary Hoover in summarizing the results of the investigation by the Department of the volume of invisible exchange.

For 1922, there was due us from foreign countries, from the excess of exports over our imports of merchandise, an amount of \$574,000,000. However, when we take into account the movement of the "invisible" items mentioned, Mr. Hoover states:

"We find that our citizens have sent to or spent in foreign countries a net balance of about \$425,000,000 more than we received on such accounts, and thus the balance due us arising from merchandise is reduced to about \$329,000,000. As affecting this sum we have received about \$246,000,000 net gold and silver imports and in addition there has been the invisible movement of loans and credits. We have exported capital in the shape of purchases of foreign securities, etc., over and above the imports of capital of the same character to the net amount of about \$669,000,000 during the year 1922, and were there no previous obligations to be accounted for this would amount to an investment abroad of more than the amounts due to us.

"To visualize the full balance sheet it might be stated that if we had entered the year with no obligations either way and if we had settled our balances in foreign trade and international finance every month in the year in gold, we should have exported gold to the amount of nearly \$340,000,000 during the year, instead of having imported gold and silver to the amount of \$246,000,000. As a matter of fact, the movement of our capital during the year was, as shown from the detailed study, partly a transformation of accounts due to our merchants and banks at the beginning of the year into bonds and funded debt during the year and partly a reinvestment abroad of amounts due us for merchandise sold during the year. No statement, however, as to the precise interaction of 'invisible movements' is other than illustrative of their importance, as from the nature of things no set-offs can be stated in precise terms.

"A full comprehension of the invisible items and their approximate value is not only of profound importance in assessing our international balance sheet, but no sound conclusion can be made concerning the effect of foreign trade movements upon our credit structure, or upon the ability of foreign countries to purchase our commodities or to pay their debts, or upon exchange rates, or upon the movement of gold, or the ultimate trend of price levels compared with those of other nations, without some comprehension of our full balance sheet including the invisible items.

"It is obvious that there are wide changes in progress in our international balance sheet for the year 1923 as compared with 1922. Up to date there has been a balance against us on merchandising account instead of large balances in our favor. There has been a continued movement against us in the current items of 'invisible' exchange. There has also been a much less movement in the export of capital. Yet there has been a continued import of gold despite this situation. The explanation of the latter possibly lies in the fact that there has been a large export of our currency which is being held and used abroad and there are some evidences that many countries in Europe have been increasing their open balances in the United States and their investments in American securities.

"It is desirable to have an annual estimate of 'invisible' items as accurate as may be, and it is proposed to seek the same co-operation from banks and merchants immediately after the end of the current year in the endeavor to again build up some comprehensive estimate as to the movements during 1923. This Department is therefore anxious to secure a consideration of the full report together with suggestions from financial institutions, economists, and merchants as to the method and material in order that succeeding estimates may be placed upon even a more definite and accurate basis."



## Railroad Officials' Views as to Homeseekers Excursion Rates to the South.

**I**N reply to an enquiry to railroad officials as to their views as to homeseekers rates to the South based on a letter from Mayor Green of Bradentown, Fla., who said that the Seaboard Air Line was the only one in favor of restoring homeseekers rates to the South, we have a number of letters.

We are glad to say however, that the Illinois Central Railroad is heartily in favor of homeseekers rates and already has them in effect on its lines and will extend these rates to Florida whenever Florida railroads desire to unite in this move. President Markham of the Illinois Central writes:

"Upon my return to the city I find your letter September 1, with reference to homeseekers rate to Florida:

"Mr. H. H. Richardson, Chairman, Homeseekers Rate Committee, Jacksonville, wrote me on this same subject, and my reply to him, copy attached, is self-explanatory.

"We have a homeseekers rate in effect to points on our lines in the South, but we have no control over the establishment of such a rate to Florida. If the lines serving the Florida destinations are agreeable to the reestablishment of the rate we will gladly go along with them.

"You quote the mayor of a Florida town that all of the railroads in the Traffic Association oppose the revival of the homeseekers rate except the Seaboard Air Line, and ask for any information that I can give you as to the accuracy of this statement. I am not informed as to the attitude of all the lines, but the statement is inaccurate as far as it concerns the Illinois Central, because we have not opposed the reestablishment of the homeseekers rate."

Mr. Markham's letter to Mr. Richardson is as follows:

"I have been absent for some weeks and yours of September 1 calls my attention to the fact that no reply has been made to your letter of August 11 in reference to homeseekers rate:

"You wrote me on this same subject last November, and for ready reference I quote my reply of November 8:

"Our position is such that we could hardly exercise any deciding influence one way or the other in the matter of homeseekers rate to Florida territory, but should the matter be looked upon favorably by the Florida lines we will be glad to co-operate with them."

"I understand that the Southeastern lines are now arranging for a conference to give the question further consideration. The situation is not such as to make any action of ours controlling. We are not unsympathetic toward the restoration of homeseekers rate and will join in doing so if that be the decision of the conference.

"With reference to Resolution No. 2, concerning government ownership of the railroads, I desire to express to you and through you to the members of your Association my appreciation of the action taken. While we who are engaged in the responsible task of building up and maintaining an efficient transportation machine take it for granted that the broad-visioned, sound-thinking business men of the land are standing behind us in our endeavors to make American railroads a solvent, smoothly functioning utility capable of rendering the service essential to the country's needs and growth, we are stimulated and gratified to have such definite action taken."

Other letters from railroad officials are as follows:

Illinois Central Railroad Company,  
Southern Lines

New Orleans, September 5.

*Editor Manufacturers Record:*

Replying to your letter of the 1st, relative to establishing homeseeker fares to Florida, I have pleasure in advising that the Illinois Central System is not opposed to the restoration of homeseeker fares to Florida.

W. H. BRILL, General Passenger Agent.

Central of Georgia Railway Company  
Office of President

Savannah, Ga., September 4.

*Editor Manufacturers Record:*

You say the statement is made that all of the roads in this section opposed the revival of these rates, except the Seaboard Air Line. I have no information to confirm that statement but I am trying to find out what is the attitude of the

Seaboard and Atlantic Coast Line with reference to the Florida business and our action, as an intermediate carrier, will very likely be in line with their practice.

So far as I know there is no demand or necessity for homeseekers rates in Georgia. If they are necessary for the development of this State or the State of Florida, we will, of course, favor them. But the letters I have received on the subject are all from real estate agents or from allied interests and I have no assurance that such rates will be useful to the people who have land for sale.

My recollection of some of the earlier promotion schemes in Florida, which these rates served to exploit in former years, is not such as to encourage us to restore a tariff of this sort, if the same kind of selling methods are again to be employed.

I shall be glad to advise you further when I find out something more about the real attitude of the Florida lines toward the proposition.

W. A. WINBURN.

Atlantic Coast Line Railroad Company,  
Wilmington, N. C., September 10.

*Editor Manufacturers Record:*

Homeseekers fares have been thoroughly tried out in the South without any great success, as it was found they were largely used by tourists and commercial men, thus depleting the revenues of the carriers without benefiting the various sections of the country served by Southern roads. However, the matter is now being looked into again by Southeastern carriers, and I will advise you the result of their further consideration.

R. A. BRAND, Vice-President.

Nashville, Chattanooga & St. Louis Railway,

Nashville, Tenn., September 7.

*Editor Manufacturers Record:*

Beg to state that the matter of initiating so-called homeseekers tariff fares has, in the very recent past, received earnest consideration of the Passenger Departments of the Southeastern lines, and, for compelling reasons, the proposition has been declined.

We appreciate your interest in the matter.

H. F. SMITH, Vice-Pres. and Traffic Manager.

Southern Railway System,

Washington, D. C., September 7.

*Editor Manufacturers Record:*

Your letter of September 1 to President Harrison has been referred to me.

We have no information that enables us to speak touching the accuracy of the report which has reached you relating to the location in Florida of settlers induced to seek that place of residence because of homeseekers rates, nor does our information coincide with yours with respect to the application of homeseekers rates to California.

We have requests before us at the moment from parties interested in real estate in both Florida and Georgia to establish homeseekers rates, and the matter is having consideration by the Southern carriers.

Southern lines have thoroughly tried out the effect of homeseekers rates. Mr. M. V. Richards, former Industrial Agent of this Company, for whom I think you have great respect, stated, after several years experiment, that the homeseekers rates had not, so far as his records and inquiries disclosed, been the means of inducing a single settler into the South.

The question is a practical one, in which the carriers have a practical interest. Undoubtedly, a mere concession by them in rates of travel will not bring people into the South; there must be some intelligent effort and, if you please, inducements which must come from the land owners, themselves, if the people of the North and Northwest are to be brought into the South, where we have no large areas of cheap land to be thrown open to the public.

We have an organization which devotes a large part of its energies to the work of inducing desirable immigrants to take up their vocation in the South. We have advertised in the county and farm papers, have assembled information as to available lands and put our agents in personal contact with people seeking location; have brought a great many of them into the South—and in no single case have we ever located a farmer through the mere inducement of a reduced passenger rate.

The matter is now a subject of fresh consideration, having

in mind the fact the emigration of Southern negroes makes the matter of larger importance than heretofore, not merely in the State of Florida but in the entire South.

LINCOLN GREEN, Vice-President.

Louisville & Nashville Railroad Company,

Louisville, Ky., September 7.

*Editor Manufacturers Record:*

I do not believe I could better respond to your inquiry than by submitting the attached copy of communication which Mr. A. R. Smith, Vice-President-Traffic, addressed to Mr. H. H. Richardson, Jacksonville, Florida, representing a Committee of the National Association of Real Estate Boards. The same is self-explanatory.

Frankly, our people have the impression that the agitation at the present time is more in the interest of town lots at a few points in Florida than in selling the agricultural lands.

I am not in position to advise you with respect to the policy of the other Southeastern lines concerning this matter. Personally, I have never seen any great advantage derived from the homeseekers fares which this Company applied to points on its lines for quite a period prior to December, 1917. The maintenance of same undoubtedly resulted in a serious revenue loss. These fares were on sale the first and third Tuesdays of each month, with a return limit of 21 days from date of sale. We always had to operate extra sleepers and coaches, and sometimes extra sections, to accommodate the travel which was not made up of bona fide homeseekers or farmers going south to look over lands, but of the public generally, including a minor number of the two classes mentioned. Of those who made the trip to look over the lands, only a very small percentage decided to settle on same and it is extremely doubtful if the fact that there were reduced rates actually was an aid in procuring settlements. Stated in another way: the very low rates were used by people to obtain a Southern trip during the winter at the expense of revenue which would have been earned by the carriers under regular winter tourist travel, not to speak of business men and others who waited until the days on which these excursions were operated. The gross revenue derived on the days the homeseekers excursions were operated was rarely more than would have been derived from the regular travel of a considerably lesser number of people. This result was made all the more apparent by the fact that our trains, for several days succeeding the homeseekers excursions, ran exceedingly light. The railroads were called upon to maintain a practice supposedly for the benefit of the land owners and agricultural interests, the net result of which was a serious loss of revenue.

If some plan could be found to legally restrict the travel to bona fide homeseekers, the Southern lines might be willing to operate on a low basis, but a way for doing so is not yet apparent.

Our traffic people do not believe that the Southwestern scheme is fully protective in that a good many tourists could combine in bodies of five or more and obtain the reduced rates. The certificate plan might offer some protection, but we could hardly afford for the certification to be made by real estate people.

W. L. MAPOTHER, President.

Mr. Smith's letter to which Mr. Mapother refers follows:

(Copy)

August 20, 1923.

Mr. H. H. Richardson,  
205 St. James Bldg.,  
Jacksonville, Fla.

Dear Sir:—

Your letter of the 11th instant to the President, Mr. W. L. Mapother, as representing a Committee of the National Association of Real Estate Boards, has been referred to me.

I have read with interest the papers accompanying your letter, being a report of the Homeseekers' Rate Committee to the Board of Directors of the National Association of Real Estate Boards and resolutions adopted at the Sixteenth Annual Convention of that body.

You direct special attention to Resolutions Nos. 7 and 11, both dealing with the question of homeseekers fares, the last resolution dealing specifically with homeseekers fares in the South and Southeast.

The Southeastern roads have given serious consideration, in response to the applications received during the last year, to this question of restoring the old homeseekers fares into the Southeast and they have not believed it practicable to re-establish that low basis of fare.

I wrote you under date of November 6th, 1922, in detail regarding the homeseekers situation as it affects our territory and in explanation of the position of the carriers and presume you have that letter in your files. Without going into the

matter as fully as in that communication, I will here recite generally the experience with homeseekers fares:

For a considerable time before homeseekers fares were withdrawn it was evident that a large part of regular commercial travelers were moving on these fares and this business was being concentrated on the homeseekers dates, resulting in a loss of revenue in passenger travel from which the carriers were entitled to their full fares, and an increase in expense by being obliged to move an abnormal traffic on two days a month reflected in sparsely filled equipment several days before and after homeseekers dates. Before the fares were withdrawn careful investigation into the use of homeseekers rates was made by this and other roads because we did not want to take a step which would result in discouraging the movement of bona fide settlers into our territory, toward the settlement of which this Company has for years been making earnest effort. Our investigation demonstrated beyond a doubt that by far the largest proportion of the purchasers of these tickets were not homeseekers but people who were making their trips on these low rate tickets for business or pleasure.

Our Industrial & Immigration Department, which has always been most active in bringing desirable farmers to our territory and settling up with permanent residents available lands in that section of the South traversed by our rails, was fearful that the withdrawal of these special rates would tend to hamper their work, although they recognized that of those brought into the South on homeseekers tickets and who inspected the lands, but a small proportion actually purchased and finally settled.

I do not believe that the experience of that department in placing desirable farmers since the homeseekers fares were canceled has warranted the belief that this settlement of our territory has been interfered with by failure to offer the farmer reduced round trip passenger fares on two specific days per month. I think in actual practice the prospective settler who now goes at his convenience and not as one of a large number on a particular day receives more careful attention and receives more valuable information with a greater likelihood of his remaining, for under the old plan, those who had lands to exhibit had to show them to numbers of people at one time and this tended to detract their effort with the individual prospect. Therefore, if our own experience can be taken as a guide we have not seriously felt the lack of homeseekers fares in the location of desirable farmers but, on the other hand, we have protected our legitimate revenue from commercial travel.

The decision of several years ago to withdraw homeseekers fares and the more recent decisions against restoring them were not reached alone by the general passenger agents but I think in probably every case had the consideration of the managements of the Southeastern roads and the management of every one of these roads appreciates to the most extent the importance of settling up its territory, thereby greatly increasing revenues.

You inquire whether we would restore the homeseekers rates provided your association would co-operate to protect the carriers against the abuse of the privilege and insure the use of homeseekers tickets by none other than bona fide homeseekers by the use of a certificate plan which you would explain. I can fairly say that if such protection were practicable and could be afforded, much of the objection to reduction involved in the former homeseekers tickets would be met but I do not know in what way such a plan would be operative and would appreciate from you some explanation of the process by which the sale of these tickets could be confined to bona fide homeseekers and denied to others, and will await your explanation of the plan.

I note with much gratification the record which the National Association of Real Estate Boards has made by Resolution No. 2, in the matter of Government ownership of railroads and the action taken cannot but be of immense value to all business interests of the country.

Yours very truly,

(Signed) A. R. SMITH, Vice-President.

Norfolk and Western Railway Company,

Roanoke, Virginia, September 6.

*Editor Manufacturers Record:*

I am in receipt of your letter of September 1, in reference to the sale of what is known as homeseekers tickets at greatly reduced fares to points in Florida, as well as to other Southern territory.

With reference to Florida, we beg to say that owing to the geographical position of the Norfolk & Western Railway, we enjoy an exceedingly small Florida travel, and hence could not possibly be a factor in the establishment of such fares.

With reference to homeseekers fares in general, we beg to



say that your informant is mistaken in stating that such tickets are on sale to California and possibly other western territory. At present there are no homeseekers fares in effect to any territory. A renewal of the sale of such tickets was attempted during 1922 to a limited territory, but must have been unsuccessful in attracting any travel as the sale was discontinued eight or nine months since.

For your further information beg to say that summer tourist tickets are sold from all sections of the United States to resorts in all Southern states at greatly reduced fares from May 15 to September 30, and winter tourist tickets are sold to a very large number of winter resorts in the Southern states from October 1 to April 30, good to return on or before May 31, both of which permit stop-over at will at any intermediate point, hence you will observe that there are reduced fare round trip tickets on sale to Southern points throughout the entire year, which can be used by homeseekers.

N. D. MAHER, President.

The Chesapeake and Ohio Railway Company,  
Richmond, Va., September 5.

*Editor Manufacturers Record:*

There are no homeseekers fares from territory served by the Chesapeake & Ohio Railway to any point, nor are such tickets sold by our competitors to any destination, as we know. As you doubtless know the Chesapeake & Ohio is largely an East and West bound line, and is not a naturally ticketing route from Potomac River or Ohio River gateways to Florida.

Our experience has been that homeseekers fares did not serve the purpose for which they were originally arranged.

I trust this is the information desired, and assume you have communicated with the Southern lines generally as to the Florida situation.

JNO. D. POTTS, Passenger Traffic Manager.

One rather striking fact in these letters is that a number of them mention the effort to secure these homeseekers rates as though this was mainly for Florida, instead of for the whole South. A number of the letters take the ground that the writers can see no good results from such special rates, but as a direct offset to this we repeat the letter of enquiry which was sent them by the editor of the **MANUFACTURERS RECORD** as showing how these rates in former years brought 20 people to Florida from one small Western town of 1000 population. It is as follows:

"I am in receipt of a letter from a mayor of an important town in Florida to the effect that homeseekers rates are being given to California, but that since the War the Southeastern railroads have refused to grant similar rates to Florida or other points in the South.

"The statement is also made that all of the railroads in the Traffic Association oppose the revival of the homeseekers rate except the Seaboard Air Line.

"The matter is one of very considerable importance to the South. The time is more opportune than it has ever been to awaken an interest on the part of Western farmers as to the advantages of the South.

"In the **MANUFACTURERS RECORD** of last week we published a letter from Mr. W. B. Powell, Secretary of the Lake County Chamber of Commerce, Florida, in which referring to this matter he mentioned the fact that some years ago as a result of homeseekers rates he and twenty or more people in a little town in the West of only 1000 inhabitants had settled in Florida, and he believed that a revival of these low rates would have a similar effect now.

"I may say that the influence which Mr. Powell has had in stimulating and stirring up the development of Florida, and in making known its advantages to other parts of the country would have more than justified low railroad rates if no one else had gone to Florida as a result of it. He has been a very great factor in the advancement of the entire state, and his going to Florida was due entirely to a trip of investigation by reason of this low excursion or homeseekers rate.

"I shall be very glad to have any information you can give me as to the accuracy of the statement made by the mayor of a Florida town which I have quoted, and whether your road is opposed to the restoration of these homeseekers rates."

## PENNSYLVANIA'S MONOPOLISTIC ANTHRACITE COAL MINERS LAW.

**T**HE compromise settlement of the anthracite situation brought about by Governor Pinchot was settled, not on the basis of principle but on the basis of expediency, which in this case we think was exceedingly unfortunate.

Necessarily it will add largely to the cost of anthracite coal to consumers and the result is simply another yielding to the power of the big stick which the United Mine Workers have been holding over the head of the American people. If Governor Pinchot would settle the anthracite situation in the way in which it ought to be settled, he would bring about the repeal of that unwise measure put through the Legislature of Pennsylvania by the power of the union miners, which prevents a man from working in an anthracite coal mine in Pennsylvania unless he has lived in that state not less than two years and is able to produce satisfactory evidence of having not less than two years practical experience as a miner or mine laborer in the mines of that commonwealth. This gives a monopoly of coal mining in Pennsylvania to the miners now in the state.

In 1889 a law was passed which embodied the following:

"All persons applying for a certificate of competency, or to entitle them to be employed as miners, must produce satisfactory evidence of having had not less than two years practical experience as a miner, or as a mine laborer in the mines of this Commonwealth, and in no case shall an applicant be deemed competent unless he appear in person before the said board and answer intelligently and correctly at least twelve questions in the English language pertaining to the requirements of a practical miner, and be properly identified, under oath, as a mine laborer by at least one practical miner holding miners' certificates. The said board shall keep an accurate record of the proceedings of all its meetings, and in said record shall show a correct detailed account of the examination of each applicant, with the questions asked and their answers, and at each of its meetings the board shall keep said record open for public inspection. Any miner's certificate granted under the provisions of this act, and the hereinafter mentioned act approved the ninth day of May, Anno Domini one thousand eight hundred and eighty-nine, shall not be transferable to any person or persons whatsoever, and any transfer of the same shall be deemed a violation of this act. Certificates shall be issued only at meetings of said board, and said certificates shall not be legal unless then and there signed in person by at least three members of said board."

This law shuts out from the anthracite mines of Pennsylvania, miners from other states. It makes it impossible for any man to work in a Pennsylvania anthracite coal mine until he has lived in the state at least two years and has had practical experience as a miner. A more monopolistic law was probably never passed. So long as that law stands on the books of Pennsylvania legislation, there can be only turmoil and continued trouble, for the miners knowing that they have an absolute monopoly over the industry will always be in a position, until this law is changed, to use their club on the heads, not only of the people of Pennsylvania but of the people of the entire country, who depend upon anthracite coal. The country should try to save itself by doing away, as largely as may be possible, with the use of anthracite coal until this law is repealed.

## A REPLY TO A SUBSCRIBER.

**I**N a letter to the **MANUFACTURERS RECORD**, discontinuing his subscription, William J. Grove, of the M. J. Grove Lime Company, Lime Kiln, Md., writes:

"Your editorials are generally sound, but you have followed the lead of the radicals in upholding prohibition and the Volstead Act, which has made a dissatisfied people and thrown a heavy burden of taxes upon us and has produced an army of poison venders that has caused the death of many a deserving citizen."

Some of these statements we flatly deny. Prohibition is not radicalism. It is an effort to save the country from the radicalism of the liquor interests. The people as a whole



are not dissatisfied but the criminal element, of high or low social standing, is dissatisfied, as are some good but we think mistaken people.

The vast majority of the American people are in favor of prohibition and the Volstead Act.

Prohibition has not thrown a heavy burden of taxation upon us; it is not responsible for any increased taxation. It has not produced an army of poison venders, but the poison venders have taken occasion to utilize the opportunity because there are men, claiming to be American citizens, who are willing to buy the poison which the venders, or bootleggers, are disposing.

We freely admit that the work of the poison venders has "caused the death of many a deserving citizen," but they are the men who were murdered by the bootleggers.

Any man who has died as the result of drinking this poison furnished by bootleggers was not a deserving citizen, and he wilfully committed suicide by drinking the poison. He was a criminal, and whatever his position may have been in the business world he was not a deserving citizen. He was a citizen who was violating the law and in that way seeking to break down all law.

We are sorry that Mr. Grove takes the view which he expresses in regard to prohibition and the Volstead Act, but, believing in the righteousness of prohibition, the MANUFACTURERS RECORD would continue its fight for it if it lost every subscriber it had. It is fighting one of the great moral issues of the world, seeking to save men from the curse of drink, to save the wail of agony of the widows and helpless children, made such by the drunkard whose dishonored death through all the years has left a trail of sorrow and suffering of those impoverished by the drink habit.

It is in behalf of the women and children of the world, as much as in behalf of the men themselves, that the MANUFACTURERS RECORD has for many years been fighting the accursed power of the liquor traffic, which always has been rotten and always will be rotten from top to bottom.

### HOW TO BENEFIT THE NEGRO.

THE Augusta Chronicle gives a very interesting account of the movement that is being made in that city for the betterment of conditions under which homes will be provided for many negro families. The story is so interesting and so suggestive as to what some other communities in the South should do that we give it in full as published in the editorial columns of the Chronicle. It is as follows:

"All Augustans should take due cognizance of a development by enterprising negroes of this community and Atlanta, of a vast tract of land on the South side of the city consisting of 475 lots, each lot being 40 feet wide over 100 feet deep. The Service Company, of Atlanta and Augusta, and of which H. C. Dugas, of this city, is a prominent officer, recently purchased the Verdery tract South of Gwinnett street for \$132,500 and is preparing now to build a group of about 25 model houses to be sold to negroes on easy terms of payment. It is believed that this group of houses will be followed rapidly by other groups and the type of house will be such that the purchasers will be proud to call them homes.

"The Chronicle has recorded from time to time the successive steps that have been made in this big development which started when the Citizens Trust Company, of Atlanta, secured the control of the Penny Savings Loan & Investment Company. This company is now erecting a bank, store and office building on the corner of Ninth and Gwinnett streets which will, undoubtedly, represent a total investment of \$100,000 and will be one of the most attractive public buildings in the city. H. C. Dugas is president of the Citizens Trust Co.

"This bank is operated and patronized practically exclusively by the colored people of this community and they deserve a great deal of credit for their enterprise. The Citizens Trust Company is allied with the Service Company and the Service Engineering & Construction Company is the subsidiary which does the construction work in the big developments.

"The Chronicle feels that Augustans generally are proud

of the achievements of our colored people and the white people of the community will do everything possible to encourage them to accomplish bigger and bigger things. We believe that the city of Augusta should take up seriously in the very near future the question of paving Gwinnett street. This should be done whether this street is opened from Druid Park Avenue to Hickman road this year or not. The negroes on that street are large tax payers, they want the street paved and since the property owners have to pay two-thirds of the actual cost of the pavement, the city can well afford to put up one-third. It would be a splendid encouragement to the colored people who have put their money and their faith in Augusta for the city to give them support in every way possible and nothing better can be done as a starter than to pave Gwinnett street. One of the big plans in the development of the Verdery tract is the cutting of a street running east and west through the property. The city can co-operate in this plan, since every house put up on the new street will mean additional taxes for the city, will mean the conversion of a vacant lot into a home.

"In Augusta there is greater amity between the white and colored races than almost any city in the country, North or South. When negroes left here for the North they did it for purely economic reasons. We know that they had rather live here than anywhere else. We can encourage them to stay here by giving them better streets, schools and showing them that they are, indeed, a valued portion of the community. There are many very substantial negroes in Augusta, some of them having amassed considerable wealth. Hundreds of them own homes now and we hope they will be increased to thousands, and if the development of the Verdery tract means the construction of 475 neat, commodious and modern homes on that many lots, the development will be one which will prove of vast worth to this community from the standpoint of increased property values. Indeed, the building program which is contemplated is going to turn loose large sums of money by providing work for a large number of men over a long period."

### CLEANLINESS AND BEAUTY AS A COMMERCIAL ASSET.

EDITORIALLY commenting upon some advice recently given by the MANUFACTURERS RECORD to the communities of the South that they recognize the value of cleanliness and beauty as an asset for the development of every town and city, the Greenville, South Carolina, News says:

"Of what avail is it to invite people into any section or any community where the stores are dirty and the yards are untidy and the houses unpainted, and the sections occupied by some of the poorer classes of whites and blacks alike would disgrace the slums of London," asks the MANUFACTURERS RECORD.

"Young men and women are allowed to grow up in many communities without any adequate recognition of the fact that art is essential—the art which expresses itself in grass and flowers and trees, in clean yards and tidy houses, in clean stores and architecturally attractive buildings—and they are thus handicapped for life.

"Character is built up by a study of artistic things. It is injured by a lack of the sense of the beautiful. The unpainted, untidy house affects the character of every individual in it and the community as a whole.

"The MANUFACTURERS RECORD has made quite a few constructive suggestions, but in the opinion of The News it has sounded here one that is worth greater emphasis than has been accorded it. Unfortunately and pathetically the South has less development of an esthetic civic sense than any other section, and it has suffered thereby. For a long time the South has been poor and enslaved to the task of making a living, but the South is over that period and it is time now to develop a sense of the esthetic.

"One who leaves the smoke and dirt and commercial arrangement of an American city and awakes the next morning in Montreal where the flowers and trees and parks have been preserved and where the sunshine and air have been given full sway, suspects that the fault is peculiar to the whole United States. The instant reflection is that in New York, for example, commerce has predominated—that in Montreal, nature has predominated. There is no more crowding in Montreal, a city of a million people, than there is in Greenville.

"The MANUFACTURERS RECORD is absolutely right in holding that "beauty in a town is commercially more profitable than ugliness." But what is more, better citizens will grow up in a beautiful town than in an ugly one."

### OUR TRADE WITH JAPAN.

**R**ECENT figures by the National City Bank of New York on the enormous gains in our trade with Japan illustrate why, from a purely business viewpoint, the United States should be intensely interested in the recovery of that country from her recent disaster.

The statistics show that the trade of the United States with Japan totalled \$585,000,000 in the fiscal year 1923 compared with \$149,000,000 in 1913, and \$65,000,000 in 1903. Our trade with Japan has proportionately outgrown that with other parts of the world as evidenced by the fact that the 1923 trade with that country is 19 times as much as in 1893, thirty years earlier, while our total foreign trade in 1923 was only five times as much as in 1893.

Japan's own trade figures show not only large gains in her trade with the United States, but that the percentage of her trade which she draws from and sends to this country has steadily increased.

Raw cotton, iron and steel manufactures, automobiles, electrical apparatus and machinery, mineral oils, tobacco and lumber form our chief exports to Japan, and raw silk, tea, rice, vegetable oils, furs and silk goods form our chief imports from Japan.

### WHAT IS THE MATTER WITH VIRGINIA?

**T**HE Richmond Times Dispatch commenting upon an article in the Charlotte Observer relating to the development of highway work and good motoring in that state quotes the Observer's statement: "It is rough going across Virginia; but motorists have learned that once in North Carolina they are in the land of the tourist's delight," and on this the Times Dispatch says: "What a commentary coming from a state, a community, and a newspaper all friendly to Virginia,—it is rough going across Virginia."

Some years ago, when the writer of this had a little more of youth on his side, he made a good many motor trips through Virginia in motoring back and forth through the South to study the question of roads; but his experience with a good many roads in that state was of such a character that not for the last seven or eight years has he been willing to risk a motor trip through Virginia, although that is his native state. But when the Times Dispatch bemoans the bad roads of Virginia, which leave an indelibly bad impression upon the motorist, it ought to seek to stir the people of that blessed state to realize how far short they are falling in the race for industrial and general material development.

There is no fairer land on earth than Virginia. But many other Southern states are far surpassing Virginia in the development of business and the creation of wealth. The city of Baltimore, for instance, had in 1920 \$206,000,000 more manufactured output than the entire state of Virginia, and yet there is no section of this country more admirably adapted for manufacturing than Virginia.

Virginia, with its great resources of raw materials, its superb climatic advantages, its splendid rivers, its bay, its ocean frontage, ought to be one of the outstanding industrial centers of the country. But the fact that its manufactured output is less than that of Baltimore alone by \$206,000,000 is indicative of how far short Virginia is falling from the high estate which it should hold in industrial pursuits. It has great manufacturing interests at Richmond, and some at Norfolk and at other points. It has one of the world's greatest shipbuilding plants at Newport News. It has important industries in other parts of the state, but it is still far behind North Carolina on one side and Maryland on the other, to the same extent it is far behind both of these states in highway building. Highway building has proven one of the greatest blessings which has ever come to Maryland in aiding its material upbuilding, and highway building is largely responsible for that wonderful spirit of activity which is

pushing North Carolina to the very front. But Virginia lags behind.

The people of Virginia may well ask themselves what is the matter? Why is it they are halting? Why is it the expansion of their industrial interests is not matching that of North Carolina? Why is it that with unsurpassed soil, with a climate matching that of North Carolina's from the seacoast to the high mountains, with that great, superb valley which stretches from its northern boundary to Bristol—a region probably not surpassed in this or any other country for agricultural potentialities, why is it with its enormous coal mining business, and its vast coal trade from Norfolk and Newport News, why is it with the progress which Richmond and Norfolk and Newport News are making, the whole state is not alive with activity and prosperity?

There is something the matter with Virginia. Who will diagnose the case and apply the remedy?

### BETTERING CONDITIONS OF FARM LIFE.

**F**ARMERS' families have suffered more inconveniences for lack of modern home facilities than any other class of people. The city family has comforts and opportunities for protecting health which, with rare exceptions, a farmer's family has not. City dwellers have running water in the house. Most farm homes are without running water, and the farmer's wife or his children have to go out in the yard, rain or shine, to draw water from a well or pump. The city dweller has gas and electric lights; the farmer's family has smoky oil lamps. The city dweller has paved streets and sidewalks, and can avoid the mud; the farmer's family have to walk through muddy yards and then often drive over almost impassable roads.

Fortunately, the people of highways are bettering some of these conditions, and opening up to the farmers' families opportunities which they never had before, and giving them many conveniences hitherto denied. A bulletin issued by the United States Department of Agriculture, in reviewing this situation and the change that is coming about, comments especially upon the steady increase in the South of household conveniences, and of changes which make for greater comfort in the farm home. In this account it says:

"Reports show that during 1922, 1435 water systems, 1932 lighting systems, 482 heating plants, and 679 septic tanks were installed in these States through the influence of extension workers, who also induced 12,898 householders to screen their entire homes, and 8342 more to screen their kitchens. Screening has been constantly urged by extension workers as a vitally important protection to health. Housewives generally seemed enthusiastic about making their kitchens more convenient, installing labor-saving devices, finishing floors so they would be easier to keep clean, reducing washing, ironing, and other labor by better equipment, and improving the appearance of various parts of the house.

"The reports show improvement of 5346 kitchen floors and 6690 other floors; rearrangement of equipment in 9130 kitchens; 1387 sleeping porches built, 7645 girls' club rooms improved and 4730 living rooms done over; 2498 fireless cookers made or bought; 2035 kitchen cabinets installed; 4597 wood boxes made or placed more conveniently; 419 wheel trays, 1417 sinks and drain boards, 1257 washing machines, 282 ironers, 3636 ironing boards, and 1330 other pieces of laundry equipment added. Flower boxes were set up and filled by 16,164 home makers, a striking illustration of the inherent love of beauty in every heart."

The Department of Agriculture and local organizations throughout the South, have been aggressive in this improvement. The work is beginning to tell. It means better health and more comforts for farmers' families. It also means an ever widening market in the South, both in the cities and on the farms, for modern devices and kitchen equipment, for improved electrical appliances for laundry work, for ice making, and a thousand and one other things which are rapidly coming into demand. As people learn to use conveniences, and adopt modern methods, life takes on



a somewhat broader view. Relieved from much of the drudgery which has burdened the lives of farmers' wives, they are learning how modern inventions and labor-saving appliances, can relieve the strain, and add materially to the joys and comforts of life.

Every movement of this kind, whether it be of National or State agricultural departments, of women's clubs or girls' or boys' clubs, looking to improvement in these respects, should be encouraged in every community.

#### THE DU PONT COMPANY SUBSCRIBES \$10,000 TO THE BOLL WEEVIL CAMPAIGN.

THE MANUFACTURERS RECORD is advised by Mr. Chas. K. Weston, manager of the Publicity Bureau of the Du Pont Company, that the matter of a subscription to the Boll Weevil Campaign of the American Cotton Association, after consideration by several of the executives, has been favorably acted upon and an appropriation of \$10,000 for the year has been authorized, check for which will be forwarded to the Cotton Association.

Probably no one company in America is more deeply interested in the success of the cotton growing industry than the Du Pont Company, which is a very large consumer of cotton, and the manufacturer of many articles out of cotton. Following the recent subscription by the United States Steel Corporation of \$25,000 a year for three years to the Boll Weevil Campaign of the American Cotton Association the action of the Du Pont Company shows how the great business interests of the country are regarding the supremely important question of saving the cotton crop from the destruction of the boll weevil.

#### JUDGE GARY OF THE UNITED STATES STEEL CORPORATION DISCUSSES PROHIBITION.

AS the largest employer of labor in America, studying from every angle all of the economic and moral questions of the country, Judge Gary of the Steel Corporation is in a position to get at first hand facts in regard to the working of our prohibition laws. Last year the MANUFACTURERS RECORD published a very strong letter from Judge Gary in hearty commendation of prohibition and its good effect. This is now followed by an interview in the New York Times in which he states that he would not be in favor of an amendment to the Volstead Act which permitted the manufacture and sale of light wines and beers, and that as the law was passed in its present form it would be, in his opinion, a mistake to amend it.

In further discussion of the subject, Judge Gary said:

"Of course, there are always some persons who will object to the passage or enforcement of any penal or prohibitory law and, as a rule, they are the men who do the most talking on the subject. I have no hesitation in saying with emphasis that the Volstead act and State laws for prohibiting the manufacture and sale of intoxicating liquors have been very beneficial to the industry of this country and to the workmen connected with it and their families.

"While there have been violations of these laws, particularly in the larger cities; while there has been illicit manufacture of 'hooch,' so-called, and while there has been more or less bootlegging, yet as a total result of the prohibitory laws there has been a large decrease in the use of liquor, at least in the vicinity of our various plants throughout the country.

"There has been a noteworthy decrease in the number of jails, asylums and hospitals. There has been an increase, and a large increase, in the bank balances of savings deposits. The health of the people has improved. The families of workmen are better clothed and better treated. The attendance of the workmen and their families at church, of the children in schools and of all of them at clean, legitimate, healthful resorts and places of amusement, has materially increased.

"The sale and use of automobiles has been largely increased by the fact that a large majority of the workmen now prefer to take excursions with their families by automobile instead

of spending their time at the saloons or other places and wasting their money in practices that are physically injurious instead of beneficial.

"At a meeting of steel men recently, it was stated by one of those present that the families of the workmen in the steel mills would vote with practical unanimity in favor of total prohibition, although some of the husbands might, perhaps, be in favor of the sale of beer and light wines.

"All in all, however, there is no doubt that a large preponderance of the workmen of this country are in favor of the prohibition of the sale and use of all intoxicants from the standpoint of good morals, good economics and peaceful social relations.

"We should all remember constantly that if any one law is broken and the offender is unpunished or unprotected some other person may decide to take the same course with respect to another law. It is a simple but important fact that the only safety of this country is found in the adoption and enforcement of laws which are calculated to protect all the people and which discriminate against none."

#### IF ALL PEOPLE WERE LIKE COUNTRY EDITORS WHAT A WONDERFUL COUNTRY THIS WOULD BE.

PRESIDENT CHESSNUT of the Texas Press Association recently paid a tribute to the country editor in a statement republished in the Fort Worth Star-Telegram as follows:

"In peace or war, in prosperity or adversity, the conscience of the country press is the bulwark of the nation, and to the country editor I give all praise.

"He is the life of our convention and the joy of our existence.

"May he and all his tribe live forever and may his spirit of optimism blossom into perpetual youth.

"As long as the country editor lives we know that all of us may enjoy life, liberty and the pursuit of happiness, for he is the watchdog of our virtues, the bull elephant in the protection of the American home.

"May God bless him and love him to death!"

"That's saying it in the language that the country editor talks.

"That semi-serious, semi-humorous tone is right in tune with the mood in which the country editor faces the problems of each recurring week.

"But the job he works at is one of the most serious and one of the most important in the whole scheme of things.

"Go into any community that is engaged in this common task of trying to live together and you will find him the most forward looking citizen in the town.

"He is the town prophet, the seer of visions and dreamer of dreams, the inspirer of the town leaders, the strengthener of the weak, the thorn in the flesh of the town knockers.

"Without ceasing he says to his people: 'Fear not, little flock, only have faith.'

"With wrath and indignation he denounces the doubters: 'O ye of little faith!'

"For above all he is a man of faith—faith in his fellows, faith in his country, faith in his state, faith in his community.

"And SUCH faith he has in his community.

"There is not a big city in the United States that was not once only the dream of a country editor.

"There is not a metropolis that was not at one time merely 'the substance of things hoped for' by some country editor.

"There is not a great industrial center which today pushes its towers toward heaven and blackens the blue sky with the smoke of its factories which is not the magnificent validation of what was once merely the 'evidence of things unseen' in the vision of some country editor.

"Wherever the country editor dwells there is at least one citizen who has his face to the rising sun.

"And to the degree that his fellow-citizens catch something of his vision and become imbued with something of his enthusiasm, to that degree is there progress.

"And yet he seldom owns much of the town for which he labors, for he 'seeketh not his own.'

"He labors for other men and for the coming generation; for that's the way he is built.

"He joys in other men's prosperity and proclaims it to the world with rejoicing.

"For his own he cares little—a crust and a roof and an old suit of clothes for himself—and with the hope of a better lot for his children—these suffice."



## "Why Not Trust France?"

[Mr. Arthur Kitson, the writer of the following letter to the Manufacturers Record, is one of the leading business men of Great Britain. He is head of the Kitson Engineering Company, Ltd., and is also president of the Bankers Reform League of England. He has been for many years a noted contributor to the discussions of financial and economic problems in the London Times and other leading publications of Great Britain, and also a speaker on many occasions before great business gatherings on these questions. Mr. Kitson in his opening paragraph suggests that Mr. Gould in his letter to the Manufacturers Record was wrong in thinking the position of the English Government in regard to France voices the feeling of the people of England generally. Mr. Gould's position is directly contrary to that, for he pointed out that many Englishmen and many English papers are in strong opposition to the present policy of England as against France in the Ruhr district.—Editor Manufacturers Record.]

By ARTHUR KITSON, Stamford, Lincolnshire, England.

Mr. Frank Gould's article in your issue of August 23 is timely, but it is incorrect to assume that the English people are taking sides with the British politicians in opposing France's occupation of the Ruhr.

The true feeling of the majority of the British people is not expressed in the pro-German organs such as the "Daily Chronicle" or even the "Daily Telegraph" and "Times."

For some reason, which it is very difficult for the average Englishman to understand, our Government officials have become permeated with pro-Germanism. Immense sums of money are being spent in this country by the representatives of Germany for the purpose of influencing the British people to break friendship with France.

The campaign against France was started by the British Treasury officials. At the head of it was Professor Maynard Keynes. This man was entrusted with certain negotiations by the Chancellor of the Exchequer, Mr. Austin Chamberlain, at the Peace Conference, and after securing all the information he could in regard to the allied terms, he suddenly renounced his position and wrote a work entitled "the Economic Consequences of the Peace," which was wholly in favor of Germany and for the purpose of cutting down the reparations.

This book has had an enormous sale in Germany and it is said that Professor Keynes has reaped a handsome reward from its publication.

It may surprise many Americans to learn that one of the leading British Treasury officials is a man by the name of Ernest Otto Niemeyer, who is said to be related to the Niemeyer Brothers, against whom charges were made of excessive cruelty to British and French prisoners of war. When the demand was made for the arrest of these two men they were with the connivance of the German Government, allowed to escape.

Representations were made to Mr. Bonar Law and other cabinet ministers questioning the propriety of retaining Mr. Niemeyer in his position in view of his German origin, but to all these representations Mr. Bonar Law and his associates turned a deaf ear.

The British Treasury has always been a kind of adjunct of that private trading company known as the Bank of England, and the men who run the Treasury seem to regard it as their chief duty to consider the interests of this bank and of the money-lending interests generally as supreme.

Many of the journals of this country are under the control of the financiers and therefore are forced to voice the opinions of their controllers, and finance has been wholly on the side of Germany both before and since the war. As an illustration of this financial favoritism on the part of London financiers, I may mention a practice which was common in pre-war days. British merchants found it very difficult in pre-war days to compete with German firms owing to the extended credit that the Germans were able to offer to Russian and other buyers.

The average English merchant could only afford to give 3 and at the utmost 6 months' credit, whereas the Germans would offer as much as 4 years' credit for the reason that the

German merchants had the support of their banks and were able to borrow the credit of the London banks which the British merchant was unable to secure on similar terms.

The German dealer would draw a bill on his Russian or South American customer dated say 4 years ahead and would send this bill to his German bank, usually one of the 4 or 5 great banks that controlled Germany's finances. These banks would endorse the German merchant's bill and send it to London where it was readily discounted.

A London banker always looks first at the security, and the last thing on earth that ever occurs to him would be the support of his own countrymen.

As the English merchant would have to rely on his own credit, his banker would refuse to give him the credit that he would willingly extend to a German bank. And this was the regular pre-war practice, so that the German merchant was able to outbid the Englishman by reason of the credit which he was able to secure from the English bankers.

There is no doubt that this intimacy between the London and German bankers has been renewed since the war and every effort is being made to resume pre-war practices and to bring the country back again to pre-war conditions.

This is somewhat surprising considering that our leading politicians promised that never again should England be placed in the same position with regard to Germany as in the pre-war years.

Mr. Lloyd George was extremely profuse in promising these changes, and he was the first man to break his promise and to reintroduce the policies which tend to make this country dependent for many of its supplies upon Germany.

A great deal has been published in the British press about the injury to British trade by reason of the French occupation of the Ruhr. There is not one scintilla of evidence to prove this. On the contrary, the facts are all the other way. The French invasion has stimulated the coal trade of England to the highest point and as a consequence there are several hundred thousand fewer English unemployed than there were 6 months ago.

Further, the French understand the Germans as the English people do not. They know how treacherous and dishonest they are, that they can never be trusted. Their promises and treaties are made to be broken whenever it suits their convenience and the French know that they will never get any reparations except by force.

On the other hand the English Government officials are really anxious that Germany shall be able to escape her obligations and every encouragement has been given to Germany to break her promises by each of our post-war Governments.

The unemployment from which we are suffering is not due to France at all. It is due entirely to the infamous deflation policy that was instituted by the Lloyd George regime. I was one of several who warned the Government even during the war against any attempt to deflate the currency after peace was declared. But the Treasury officials, under the instigation of the Bank of England and the international financiers

determined to bring down prices even if it meant the ruin of British trade and industry.

As far back as 1915 I sounded a note of warning against what I foresaw would happen unless the public were aroused to the danger. The result of this policy has been disastrous in the extreme. At the beginning of 1920, according to Sir Josiah Stamp, the wealth of Great Britain was estimated at £30,000,000,000. At that time our national debt was represented by £7,500,000,000 which was just one fourth of the National wealth. After three years of deflation, taking the index number as our guide, the wealth of this country has fallen to about one-half, namely £15,000,000,000 and the debt is still £7,500,000,000, and has therefore grown from one fourth to one-half of our national wealth. And our financiers and their hirelings—the orthodox economists and journalists—have the impudence to tell us that this was a sound, safe policy.

It is probably the greatest crime that has ever been committed on the British public. The result of this terrible fall in values and shrinkage of credit has been to throw over 2,000,000 of people out of employment and has bankrupted thousands and brought the trade of the country almost to a standstill.

In spite of this shrinkage of purchasing power the Government have enforced the heaviest taxation that the country has ever known, so that today the British taxpayer is the most heavily taxed individual in the world.

And the curious thing is that the average business man does not seem to understand the cause of all this trouble. Ignorant as he is of finance he relies on his banker for his information and on his daily paper.

The condition of affairs is so desperate that the Government have at last become genuinely alarmed and are dreading the approach of winter. In the meantime Germany has been prospering like the proverbial "green bay tree." In spite of her reckless currency inflation she has built up her industries and provided work for all her people. Of course the inflation policy has relieved the German taxpayer of practically all his burdens although it has ruined the classes that live upon interest, rents and fixed incomes, but the industrial classes—especially the manufacturers and men like Stinnes—have become enormously rich and Germany today is in the position to compete successfully with all her rivals. And this is the nation that was supposed to have lost the war.

Not a few Englishmen are asking whether it would not have paid this country better to have lost the war and to have let Germany win it.

The astounding indifference of the British Government to the interests of their own people is shown in regard even to the damages which British citizens have suffered by reason of the war and their failure to enforce payments from Germany.

An illustration of this is furnished in the case of my own business. Just before the war started, we had purchased some goods from a German firm and we have been forced to pay this debt with interest charges since the termination of hostilities.

On the other hand we lost some thousands of pounds worth of goods that were stolen from our warehouses in the North of France as well as in Austria, Turkey and Poland by the German armies. Our French and Polish agents were taken prisoners, whilst in Turkey our agents were massacred, and for the last four years we have been trying to get our Government to compel the Germans to make restitution for the losses we have suffered, amounting to some £14,000. But so far we have had nothing but acknowledgements of the receipt of our letters and as far as we can see not a step has been taken to enforce these claims.

This is merely one case among thousands. One of our officials to whom the writer complained said that if we had

been Germans with claims against English firms, he would have had no trouble in securing payments but as we happen to be Englishmen with claims against the Germans we should probably have to whistle a long time before we receive attention and he thought that it would be more than likely that we should receive nothing.

Those who wish however to understand the true feeling of the average Englishman should read the "National Review," a copy of which I am sending you. This magazine will be found to contain articles month by month which are more truly representative of English opinion than any other journal published in this country.

### **Atlantic Cotton Association Organized—To Promote Better Handling of Cotton in South.**

Atlanta, Ga., September 15—[Special.]—At a recent meeting here of cotton merchants of the Southeast, organization of the Atlantic Cotton Association was perfected with the election as president of Frank Inman of this city.

Cotton merchants from Southeastern states, from Virginia to Mississippi, attended the meeting, which was called for the purpose of forming a merchant's organization to work for uniformity of trade customs and practices among those handling cotton in the Southern states.

Its purpose, according to the constitution and by-laws adopted, is to "acquire, preserve and disseminate information relating to the production, use, demand for, sale, purchase, weighing, shipping, handling and condition of cotton; to induce and promote the economic and prompt handling and marketing of cotton crops; to advance, foster and encourage the cotton industry and to arrange, furnish, own and maintain facilities and all things necessary or convenient to enable its members to engage in the buying and selling of cotton and cotton products; to adopt standards of classification and stapling of cotton, and to adjust controversies between its members."

Besides election of Mr. Inman, the following members were selected to serve on the board of directors of the association: J. N. Weil, Montgomery, Ala.; C. A. Case, Birmingham; Fred Cockrell, Atlanta; M. P. Rivers, Savannah; W. S. Griffin, Greenville, S. C.; M. C. Heath, Columbia; C. W. Bradshaw, Greensboro, N. C.; and Mr. McCoy, of Charlotte.

### **Porto Rican Laborers for This Country.**

San Juan, P. R., September 1.

*Editor Manufacturers Record:*

I have just received a cable from Mr. Wm. J. Stoop, Vice-President, Wheeling Steel Corporation, requesting that I assist them in securing 200 Porto Rican laborers, and I have assured him by cable that I could secure these men and to forward me full details.

To begin with, when I first mentioned Porto Rican labor, in my letter to the MANUFACTURERS RECORD I really had no idea of starting anything. I was only expressing an idea; however, if I can be of service to American manufacturers by supplying them with labor at a fair compensation to myself, I shall be only too glad to enter the business on a large scale.

Our Island is over populated, the men work in seasons, sugar, coffee and tobacco; they are paid a bare living wage. They are at all times under-nourished and for that reason are unable to work hard or fast. I believe to take these same men and provide a decent living for them, they could produce as much work as any other men, and as they are American citizens, it appears to me they are the men to help when a shortage occurs in labor like the present. We also have skilled labor that could be sent North, such as mechanics, engineers, machinists, foundry-men, electricians, masons, truck drivers, etc.

Jos. C. Price.

P. O. Box 1591.



# Over \$380,000,000 in Contracts Awarded in Sixteen Southern States for First Eight Months of 1923.

ACTIVITY IN NEW BUILDING AND OTHER DEVELOPMENTS GREATEST THE SOUTH HAS KNOWN—INDICATIVE OF INCREASING WEALTH OF THIS SECTION.

Contracts awarded for construction work in the sixteen Southern states for the first 8 months of 1923 reached the impressive total of \$380,448,000 compared with \$367,000,000 for the corresponding period of the preceding year and with \$183,647,000, the total awards for the first eight months of 1921. These figures are compiled from reports published in the Daily Bulletin and in the construction department of the MANUFACTURERS RECORD, and include no building project costing under \$10,000. If these smaller contracts were included actual awards in the Southern states, January to August, inclusive, should easily aggregate over \$530,000,000.

During the eight months' period, preliminary announcements of contemplated construction projects indicated the ultimate expenditure of \$988,000,000, which practically equals the total for the whole of 1921 that assured the record-breaking program of 1922. Many of the projects announced early in the year under "contracts to be let" have since been awarded, although there will be a large carry-over into

the fall of this year and the early winter months of 1924. This, together with the work on big projects under way insures a large volume of construction for some months. The great program in sight is made more certain of being carried to completion by the record of contemplated projects the valuation of which in July and August totaled \$95,295,000 and \$149,288,000, respectively, as compared with the totals of \$77,166,000 and \$125,550,000 for July and August of the preceding year. Awards in July and August of this year totaled approximately \$86,000,000, contrasted with \$108,000,000 for the same period of 1922.

Contracts to be let covering definitely planned construction work totaled \$649,000,000 in the first eight months of 1921, \$734,000,000 in the same period of the succeeding year, and expanded to close to \$1,000,000,000 for the similar period this year.

Thus for two-thirds of the year, contracts actually awarded are nearly 70 per cent of the total for the whole of 1922. The

## SUMMARY BY CLASSIFICATION OF CONSTRUCTION SOUTH

### Awards for July and Totals from January to July Inclusive.

	July 5	July 12	July 19	July 26	July Total	Jan. to July
Apartment Houses and Hotels.....	\$264,300	\$1,708,000	\$348,734	\$1,151,000	\$3,472,034	\$58,214,618
Association and Fraternal.....	110,237	1,050,000	850,000	25,000	2,035,237	5,707,778
Bank and Office Buildings.....	501,000	2,272,000	78,000	1,051,000	3,902,000	29,457,381
Church Buildings.....	673,500	205,980	319,000	593,000	1,791,480	8,903,588
City and County Projects.....		953,600	30,698	682,074	1,666,372	8,149,881
Dwellings.....	206,500	431,030	511,400	252,706	1,401,636	12,925,249
Miscellaneous Enterprises.....	1,908,173	2,528,713	1,624,622	329,220	6,390,728	57,540,710
Roads, Paving and Bridges.....	2,006,690	7,298,867	2,290,443	2,616,847	14,212,847	104,794,177
School Buildings.....	985,552	1,591,856	1,562,022	2,106,427	6,245,857	30,183,591
Sewers, Drainage and Waterworks..	352,500	263,457	34,633	217,680	868,270	15,337,866
Store Buildings.....	231,444	155,000	575,399	654,500	1,616,343	7,075,456
<b>TOTALS</b> .....	<b>\$7,239,896</b>	<b>\$18,458,503</b>	<b>\$8,324,951</b>	<b>\$9,679,454</b>	<b>\$43,602,804</b>	<b>\$338,290,295</b>

### Awards for August and Totals from January to August Inclusive.

	August 2	August 9	August 16	August 23	August 30	August Total	Jan. to Aug.
Apartment Houses and Hotels....	\$375,000	\$2,496,000	93,000	\$400,000	\$608,000	\$3,972,000	\$62,186,618
Association and Fraternal.....	2,500,000		200,000	20,000		2,720,000	8,427,778
Bank and Office Buildings.....	20,000	259,000	145,000	313,830	1,235,000	1,972,830	31,430,211
Church Buildings.....	302,774	142,511	294,000	342,700	171,071	1,253,056	10,156,644
City and County Projects.....	239,997	65,350	103,500	96,535	69,755	575,137	8,725,018
Dwellings.....	246,400	321,341	254,500	357,696	451,733	1,631,670	14,556,919
Miscellaneous Enterprises.....	2,378,400	1,604,028	1,344,000	1,015,000	1,719,986	8,061,414	65,602,124
Roads, Paving and Bridges.....	3,586,299	1,943,775	1,517,237	3,432,334	1,696,480	12,176,125	116,970,302
School Buildings.....	1,591,939	377,400	962,953	1,079,817	856,600	5,468,709	35,652,300
Sewers, Drainage and Waterworks	31,500	544,634	931,400	675,010	453,717	2,636,261	17,974,127
Store Buildings.....	91,000	635,000	163,000	186,000	616,355	1,691,355	8,766,811
<b>TOTALS</b> .....	<b>\$11,363,309</b>	<b>\$8,389,039</b>	<b>6,008,590</b>	<b>\$8,518,922</b>	<b>\$7,878,697</b>	<b>\$42,158,557</b>	<b>\$380,448,852</b>

### Contracts to Be Awarded for August and Totals for Eight Months.

	August 2	August 9	August 16	August 23	August 30	August Total	Jan. to Aug.
Apartment Houses and Hotels....	\$1,167,500	\$3,763,500	\$2,185,000	\$6,144,000	\$2,857,000	\$16,117,000	\$88,617,835
Association and Fraternal.....	2,835,000	740,000	595,000	490,000	100,000	4,760,000	19,223,500
Bank and Office Buildings.....	380,000	1,765,000	1,700,000	360,000	279,500	4,484,500	42,699,000
Church Buildings.....	595,000	509,000	542,000	428,500	851,500	2,926,000	24,494,335
City and County Projects.....	1,165,000	710,000	580,000	125,000	549,000	3,129,000	13,711,404
Dwellings.....	1,893,957	553,000	406,900	980,250	1,071,500	4,914,607	40,325,447
Miscellaneous Enterprises.....	13,241,674	25,447,250	5,974,000	13,925,000	9,075,500	67,663,424	495,731,973
Roads, Paving and Bridges.....	2,602,017	2,218,136	1,630,621	2,437,312	3,434,408	11,722,494	117,787,534
School Buildings.....	2,001,000	1,257,000	3,130,499	5,245,856	4,060,000	15,694,355	74,719,367
Sewers, Drainage and Waterworks	7,232,950	1,339,800	38,000	1,863,000	1,640,000	12,113,750	45,630,122
Store Buildings.....	1,883,000	311,000	1,475,000	475,000	1,619,000	5,763,000	25,062,355
<b>TOTALS</b> .....	<b>\$34,397,098</b>	<b>\$38,613,686</b>	<b>\$18,257,020</b>	<b>\$32,482,918</b>	<b>\$25,537,408</b>	<b>\$149,288,130</b>	<b>\$988,002,872</b>

### Contracts to Be Awarded for July and Totals for Seven Months.

	July 5	July 12	July 19	July 26	July Total	Jan. to July
Apartment Houses and Hotels.....	\$959,500	\$3,960,400	\$1,972,000	\$3,814,000	\$10,706,800	\$72,500,835
Association and Fraternal.....	649,000	390,000	270,000	490,000	1,799,000	14,463,500
Bank and Office Buildings.....	185,000	1,780,000	1,100,000	425,000	3,490,000	38,214,500
Church Buildings.....	607,000	1,048,000	540,000	987,000	3,182,000	21,568,335
City and County Projects.....	115,000	55,150	600,000	1,182,000	1,952,150	10,582,404
Dwellings.....	477,000	699,500	678,500	602,500	2,457,500	35,410,840
Miscellaneous Enterprises.....	4,089,865	10,841,000	13,754,500	6,336,300	35,021,665	428,068,540
Roads, Paving and Bridges.....	5,693,008	3,535,153	4,283,566	2,612,613	16,124,340	106,065,040
School Buildings.....	3,886,000	9,187,000	1,025,000	966,500	15,064,500	95,025,012
Sewers, Drainage and Waterworks..	340,000	922,250	1,624,000	750,000	3,636,250	33,516,372
Store Buildings.....	427,500	402,000	861,125	173,800	1,864,425	19,269,355
<b>TOTALS</b> .....	<b>\$17,428,873</b>	<b>\$32,820,453</b>	<b>\$26,708,691</b>	<b>\$18,340,613</b>	<b>\$95,295,000</b>	<b>\$838,714,742</b>



## COMPARATIVE RECORD OF CONSTRUCTION SOUTH FOR PAST THREE YEARS.

	Contracts Awarded		Contracts to Be Awarded	
	1921	1922	1921	1922
August .....	\$22,531,274	\$56,828,000	\$42,158,557	\$72,833,895
July .....	31,935,131	52,054,400	43,602,804	105,744,007
June .....	24,841,640	49,340,627	39,415,744	108,971,131
May .....	22,630,100	58,338,434	54,285,288	84,752,130
April .....	33,889,346	52,992,960	62,045,077	136,979,131
March .....	25,361,577	40,617,531	66,397,384	87,916,333
February .....	14,350,944	35,774,174	36,095,012	30,920,254
January .....	8,107,757	21,143,479	36,448,786	21,209,800
<b>TOTALS</b> .....	<b>\$183,647,769</b>	<b>\$367,020,305</b>	<b>\$380,448,852</b>	<b>\$649,326,864</b>
			<b>\$734,358,783</b>	<b>\$988,002,872</b>

outlook for continuation of building in volume is good. The program as already announced practically assures continuation of the forward movement during the succeeding months of the year. The activity to date has surpassed anything the South has heretofore known.

The preceding tables show the totals under the different classifications for July and August, also a comparison between months of preceding years.

### Additional Contracts Let for \$5,000,000 Santa Fe Terminals at Dallas—19-Story Office Structure and Three Warehouse Units—Underground Railway Tracks Provided.

Dallas, Tex., September 17—[Special.]—In addition to the general contract for the erection of the new \$5,000,000 Santa Fe terminal buildings to be erected here by the Terminal Building Corporation, a number of other contracts have also been awarded as follows: Structural steel, iron and other metal work, Austin Bros.; excavating, Vilbig Bros.; marble, tile and terrazzo work, W. A. Jacobie Co.; heating, Kinnison Bros.; plumbing, Martyn Bros.; electrical work, wiring and fixtures, Manett, Seastrunk & Buckner, all of Dallas; lumber and millwork, the Bucy-Ingram Lumber Co. of Fort Worth. As reported in the MANUFACTURERS RECORD last week, the Watson Co. of Dallas was awarded the general contract, associated with J. C. Buchanan, who will superintend all construction.

Structures comprising the terminal will include a 19-story office building, 135 by 200 feet; a 10-story warehouse, 161 by 200 feet, and two 8-story warehouses, 150 by 171, all the buildings to be linked by a five-track underground railway system connecting with the Santa Fe lines. The office building will be of steel and concrete, finished with marble, granite and stone. The front portion for a depth of 70 feet, will be divided into offices, while the remainder will be devoted to display rooms, chiefly for the use of manufacturers' agents and firms requiring large single offices. Nine elevators, including freight, passenger and combination lifts, will be installed. On the ground floor, the Santa Fe System will maintain offices, and there will also be a lunch room and drug store. A seven-foot glass-enclosed corridor will connect all offices, and the nineteenth floor will be surrounded by a six-foot balcony giving outside access to all offices.

The first unit of the warehouse group will contain 335,290 feet of floor space and will be occupied by the Dallas Transfer Co., with a large dry storage plant. Equipment and design of the second warehouse will be especially adaptable to the economic handling of merchandise. A portion of the third unit will be utilized as a cold storage warehouse already under lease, while the remainder will be occupied by the Pittsburgh Plate Glass Co. and the Olmstead-Kirk Paper Co. All warehouses will be of reinforced concrete and steel with face brick finish. Contracts call for the completion of the office building by January 1, 1925, and the first of the warehouses by July of next year. The second warehouse is to be finished in September of next year and the third and last a few months later. About 350 carloads of steel will be required for construction purposes.

Arrangements have already been completed with the Sanitary Manufacturing Co. and the Greiner-Kelley Drug Co. for

underground spur tracks leading to their respective buildings from the main switching facilities of the Santa Fe in the subways. Other industries desiring similar facilities may also be accommodated.

Lloyd R. Whitson and F. Cowderoi Dale are the architects for the buildings; Prof. George A. Maney and W. E. Joor, the structural engineers, and R. F. Taylor, the mechanical engineer.

Officers of the Terminal Building Corporation are H. A. Olmstead, Dallas, president; F. G. Pettibone, Galveston, vice-president; E. M. Elliott, Galveston, secretary; George N. Yard, Galveston, treasurer; Rosser J. Coke of Dallas and C. K. Lee of Fort Worth, general attorneys.

### Higher Prices Predicted for American Cotton.

Manchester, England, September 3—[Special.]—Messrs. Reiss Brothers, well known raw cotton merchants of Liverpool, in a special report to the trade state that they anticipate much higher prices in the long run for American raw cotton. The report is of great interest, especially as it follows on the fourth condition report of the United States Government, which gives an indicated crop of American cotton of 10,788,000 bales. Messrs. Reiss Brothers state that a crop of 11,000,000 bales will not be sufficient. Then they continue:

"We admit trade is not good, but contend that, even making allowance for the abnormal conditions, the world needs now at least 12,000,000 bales. This is all the more true because as everybody knows, the visible and invisible supply is now so small that it cannot be drawn upon much further without severely endangering the future markets. Therefore, there will not be any other alternative but to reduce consumption by a further advance in prices. During the last three years America has produced only 32,000,000 bales including 1,500,000 bales of linters, against an actual consumption of 36,000,000 which explains the extremely small July visible and invisible supply, that is 2,573,000 bales. The position is certainly stronger than it was last year, and consequently there is no reason why the high prices of roughly 30 cents a pound or more should not be reached at some time or other during the present season."

After referring to the fact that stocks of cloth in China and India are on a very low ebb, Messrs. Reiss Brothers conclude: "In short, we are of the opinion that the foundation is laid for a good revival of trade demand, mainly on account of the unquestionably small stocks of all the world over, not only of the raw material, but also of the manufactured article which makes replacement inevitable."

### To Award Contract for Cathedral Building at \$372,700.

Wheeling, W. Va., September 15—[Special.]—R. R. Kitchen & Co. of Wheeling have submitted the lowest bid for the construction of the new St. Joseph's Cathedral in this city, and will be awarded the contract, according to announcement by the Rt. Rev. J. J. Swint, Bishop of Wheeling. Bids ranged from \$372,700 to \$459,000 and covered the general contract for the church building proper.

Work will be started immediately on the foundations. It will require a period of about two years to complete the cathedral.

# Ford's Enormous Plant at Minneapolis.

By A. L. CROCKER, Minneapolis.

The official memorandum furnished me of Mr. Henry Ford's great plant at this city is as follows:

Hydro-electric plant .....	\$1,200,000.00
River Terminal and Levee development .....	250,000.00
Steam plant .....	1,000,000.00
By-product operations .....	1,000,000.00
Manufacturing plant—600x1740 feet—one million square feet first unit .....	4,000,000.00
Railroad connections .....	250,000.00
Other miscellaneous developments .....	250,000.00
	<b>\$7,950,000.00</b>

The Ford Motor Co. will assemble in this plant 750 automobiles or cars per day; manufacturing parts for 1000 cars per day, and making special equipment such as batteries, copper parts, etc. The railroad capacity is for 250 freight cars per day.

The river terminal will be about 3000 feet long, with the docks proper about 200 feet long.

Arrangements have been made with the United States Government to transfer to this plant six barges from the South, and to send the large barges originally built for this upper river south to replace them, they being too large for this upper river service.

The six barges coming to the Ford Company are 150 feet long, 35 feet wide, and have a four and a half foot draft.

The number of barges coming at first will be increased as the demand grows.

The Ford Company has arranged to throw open these terminals to other shippers, so that the Ford tonnage may be supplemented by other tonnage, to make full loads.

This barge service will extend to New Orleans, and at the points that railroads cross the river running west, the barges will transfer freight to those railroads.

The distribution from this Ford plant will cover the United States west of the Mississippi river to the Pacific.

The building architecturally will be the finest Ford plant so far constructed.

The raw materials to be used in this plant will be drawn from the iron ores of Minnesota, from the copper mines of Michigan, from the lead mines of Missouri and from the Ford timber lands of northern Michigan.

This Ford plant lies on the west side of St. Paul, adjoining Minneapolis, and this metropolitan location affects 700,000 people, representing both cities, and the plans have been made for the construction of bridges and interurban street car lines to make this district available to the labor population of both cities.

Speeding up of the building of the railroads leading into the plant, with crews working day and night, means that the line will be ready late in October, according to Col. L. H. Brittin who was the master mind in conceiving and securing this Ford plant for this section.

Contracts for the main building will be awarded next week, and work will be pushed all winter.

The buildings will be about 40 feet above the river terminals, and tunnels will run from the river under the buildings, with electric elevators to do the lifting.

This plant will be ready to begin business by the first of June, 1924, with a force of 5000 men to be developed to 18,000 men, a man for a horse power.

Mr. Ford has never known anything about the United States west of Chicago, until the thing was presented to him in its largeness, and by carefully worked out plans and statistics, which completely surprised him, and which on investigation he found to be correct.

Note some of the facts regarding this trade territory tributary to the Twin City trade center, composed of Minneapolis and St. Paul.

In this territory the Twin City distributor has a marked

advantage over Milwaukee, Chicago, Omaha, Kansas City, Denver, Portland or Seattle.

It is twice the size of the combined states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, and West Virginia.

These figures are given in printed form by the great Northwest Terminal Co., the largest distributing concern in this section.

Its length east and west is equal to the distance between Boston and Kansas City and its width north and south, the distance from Boston to Richmond, Va.

I am trying to put before you the tremendous benefit to the entire United States it would be to be able to bring the water three-fourths of the globe into and out of the Mississippi valley, by a practical improvement of the river, and this can be done, and Jones & Laughlin of Pittsburgh are showing us how.

In particular what would it do for the Southern states on the river to have an interchange of climatic products, and in particular what would it do to New Orleans to have practically the ships of the United States built in our Great Lakes, as the cheapest place to build the hulls, and to float these empty shells on 7 feet of water, down past Chicago to New Orleans, with the shops and docks, and supplies there to be fitted up for service.

This is just what Lyman E. Cooley of Chicago, one of the greatest engineers we ever had, drilled into me, and what W. A. Bowden, Chief Engineer of Canadian Railroads and Canals, has talked to me for some years, saying that is the main reason he is pushing the Welland Canal, and it is what M. G. Barnes tells me is one of the big reasons that Chicago is pushing their big canal, and it is Mr. Barnes who gives me the figures of 7 feet for getting the hulls past Chicago and down to New Orleans.

## Valuable Directory of Commercial Minerals.

The Industrial Department of the Central of Georgia Railway Co., Savannah, Ga., has issued a comprehensive "Directory of Commercial Minerals," lying along the lines of this railroad system in Georgia and Alabama. The collaborators in the production of this valuable book of 150 pages included T. Poole Maynard, Ph. D.; J. M. Mallory, General Industrial Agent of the railway company, and R. T. Stull, Ceramist. The volume presents brief descriptions, and many illustrations of the commercial mineral deposits in the regions traversed by the Central of Georgia lines. It also gives reference to official publications and special reports containing more complete information concerning the deposits.

The Alabama and Georgia state geological departments and the U. S. Geological Survey have made general investigations and reports on these regions, but since these geological reports were issued there has been much additional information collected by them as well as by the Industrial Department of the railway. Special investigations have been made for the company by Dr. Maynard and Mr. Stull and their reports are on file with the department. The information contained in the book is arranged by counties under proper headings and is easy of reference. Accompanying it is a large map showing the lines of the railway and the geological formations in the different counties along them. Mr. Mallory can supply more detailed information if requested.



### Georgia's Crops Exceed in Value Those of Last Year by Nearly \$30,000,000.

Atlanta, Ga., September 17—[Special.]—The weather during the past few weeks has had a beneficial effect on crops throughout Georgia, according to J. J. Brown, State Commissioner of Agriculture, and conditions, as a whole, are much brighter than they were a month ago.

If present prices are maintained, according to Mr. Brown, the total value of crops grown in Georgia this year will amount to approximately \$240,000,000, as compared with a total valuation of \$211,699,000 for 1922, and \$177,986,000 for 1921.

The cotton acreage in the state amounts to 3,936,000 acres this year—an increase of about 8 per cent over the acreage planted last season. With the present trend in prices, it is expected that Georgia's cotton crop this year will be worth at least \$120,000,000.

Georgia is not expected to produce more than 51,000,000 bushels of corn this year, but more than 12,000,000 pounds of tobacco has been raised and most of the crop has been disposed of at a good profit to farmers.

Poultry is rapidly increasing in money value throughout the state. It is estimated that \$5,000,000 net will be received by Georgia farmers this year from this source alone. And the making of butter and cheese is increasing rapidly in many sections of the state.

Altogether it can be said that the farmers of Georgia are rapidly recovering from their depression, and that diversification is coming more and more to be regarded as the life-saver of the state.

Neither are Georgia farmers has-beens, so far as the production of Lima beans is concerned.

Two or three years ago, Georgia used to import hundreds of car-loads of Lima beans—chiefly from California, where they are grown on a large scale and shipped all over the United States.

Then the Georgia Department of Agriculture suggested that the farmers of the state raise their own Limas, and offered to help sell the beans through its own bureau of markets.

This year, the bureau of markets has been literally flooded with samples of Lima beans from all over the state, and indications are that a great part of the Georgia supply will be raised at home and eaten in the same place.

Officials of the bureau state that every farmer who has a supply of good Limas, and will sack them properly, is assured of a ready market and a good price for his product. Whereas the California Limas arrive on the market about October 16, and bring from 7 to 8 cents a pound, Lima beans from many sections of Georgia are already on the market, and because of their earliness and high quality, are bringing around 10 cents pound.

One exceptionally fine lot of beans—1500 pounds—brought 11 cents a pound recently on the Atlanta market.

### Diversified Farm Crops in Georgia Bringing Prosperity to Many Farmers.

Atlanta, Ga., September 17—[Special.]—The Georgia tobacco crop will be in excess of 12,000,000 pounds, according to a report of the Georgia Co-Operative Crop Reporting Service made public today.

Of this, something over 9,000,000 pounds comes from the new bright tobacco area in South-central Georgia; 2,500,000 pounds from the cigar-tobacco area of Southwest Georgia; and the balance from scattered areas of bright tobacco in North Georgia.

The prices received for this tobacco have been favorable, and very welcome in many sections where cotton this year has been almost a complete failure.

Late planted crops, particularly late corn, made good gains,

according to the report, and in addition to a better outlook for grain in all parts of the state, a production of 300,000 tons of forage crops is forecast.

Crop correspondents value this forage at about \$1.50 per hundred pounds, making the crop worth at least \$8,500,000 to the farmers of the state.

These figures, which have been compiled for the first time in the history of Georgia, supply data heretofore lacking on food and feed supplies, and are a valuable addition to other features of the crop report.

Seasonal conditions have favored sweet potatoes, and the pecan crop promises to set a new record in production. Several million dollars will probably be received from this source to relieve the situation in the state.

Taken as a whole, the diversified crops of the state are doing splendidly, and promise to do more than their share to pull farmers out of the financial hole dug by the boll weevil. Tobacco, forage crops, peaches, pecans and sweet potatoes all point the way to financial independence. All that the farmers of Georgia need to do is to follow the sign-posts and diversify.

### South Carolina's Agricultural Products.

All leading crops in South Carolina, except sweet potatoes and rice, show an increase in production over last year, according to report issued by the Division of Crop and Live Stock Estimates of the United States Department of Agriculture September 10, substantial increases being noted in production of wheat, oats, peanuts and tobacco.

B. B. Hare, Agricultural Statistician for South Carolina has compiled the data below showing estimated production of leading crops in South Carolina for both 1923 and 1922.

SOUTH CAROLINA			
Crop	1923	1922	
Corn (bu.)	30,690,000	29,908,000	
Tobacco (lb.)	66,700,000	57,600,000	
S. Potatoes (bu.)	8,930,000	9,568,000	
Irish Potatoes (bu.)	2,816,000	2,552,000	
Peanuts (lbs.)	33,820,000	27,887,000	
Rice (bu.)	1,700,000	1,744,000	
Wheat (bu.)	1,920,000	1,321,000	
Oats (bu.)	11,232,000	9,743,000	

### Fruits and Vegetables Prove Profitable Crops in Richmond County, Ga.

Atlanta, Ga., September 14—[Special.]—Richmond County, Georgia, of which Augusta is the county seat and principal city, is finding that diversification in farming pays.

Peaches raised in the county this year, as a cash crop with which to combat the boll weevil, brought in a net income to the farmers of between \$25,000 and \$30,000. They brought top prices on all of the country's leading markets, and the demand lasted longer than the supply.

Farmers of the county realized approximately \$12,000 on watermelons alone this year.

One shipment of thirty cars netted \$225 a car, and a great deal of the crop was sold in Augusta and neighboring cities for good prices.

And finally, the cotton crop of the county has made good. Loss from weevil damage is considerably less than it was last year, and the county agent predicts that the crop this year will be 4000 bales as compared to a crop of 3000 bales for 1922.

While no estimates can be made as yet on the corn and peanut crops, both are said to be in good condition and will probably yield good returns.

Altogether, diversification of crops, and the use of cotton as only one of a series of money crops, has paid the farmers of Richmond county well, and they are going to continue to raise peaches, peanuts, melons and corn next year no matter how high cotton may go.



# Welfare Work on America's Largest Cotton Plantation.

AN EXTREMELY INTERESTING MISSISSIPPI DEVELOPMENT, WHICH IS PROVING A PROFITABLE INVESTMENT IN MEN AND MONEY.

By THOMAS WRIGHT SMITH.

Long before the exodus of the cotton growing negroes had begun, before the Southern plantation owners had generally been aroused to the fact that to hold the labor on the plantations of the South better living conditions must be furnished, the Delta & Pine Land Company of Mississippi, under the executive genius of Mr. L. K. Salsbury, its president, had recognized the importance of a contented tenantry and had taken effective steps toward that end.

The properties under the guidance of Mr. Salsbury constitute the largest cotton producing plantation in the world. They are located principally in Bolivar and Washington Counties, Mississippi, bisected by the Yazoo & Mississippi Valley Railway, with the village of Scott as the administrative center, and consist of over 60,000 acres of the rich, alluvial lands known as the Yazoo-Mississippi Delta, lying between Vicksburg, Miss., and Memphis, Tenn. At the time these plantations were acquired some twelve or fourteen years ago, Mr. Salsbury found them to be about the same as the general run of old-time cotton estates.

Beautiful fertile ridges were well cultivated, but thousands of acres of equally fertile land were covered with swamps and bayous. The meandering dirt roads were for dry weather use exclusively; across fields, much better going in winter time. The water supply and housing conditions were in many cases deplorable. Malaria was not the exception, but the rule. The first year of Mr. Salsbury's administration, he estimates that fully 80 per cent of his labor was at a low degree of efficiency on account of malaria.

Almost the first person employed by the property was an experienced, capable physician, who was given full power to

corn. From that time to the present, the effort towards better conditions has never for a moment abated. Malaria and contagious diseases are now no more prevalent on this property than in most Southern cities, and are given instant attention when detected.

The drainage on this great property is practically perfect. Standing water has entirely disappeared, except in one large, beautiful, fresh-water lake over five miles long that affords fishing, boating and other helpful recreation. Each season a house-to-house survey is made, under the direction of the Medical Department, when the health condition of the ten-



A TYPICAL PLANTATION CHURCH.

ants is carefully investigated. Mosquito nets are supplied and their proper use and care explained. The premises are examined for old cans or small depressions that might contain stagnant water. If the health of the family is good, it is so reported; but if a doctor's services are required, he is notified to call at once. Mr. Salsbury states that the increased cotton production of a few families repays many times this slight expense.

Housing conditions have received the same careful attention. The old-fashioned log cabin has entirely disappeared, replaced by comfortable sealed houses with good floors and roofs. The slab-door window is no more, but all of the company houses have ample glass windows, insuring abundant sunlight and ventilation. Wells drilled to uncontaminated water strata are supplied to each house, and welfare workers encourage the planting of vegetable gardens and flowers and the adoption of sanitary conditions, wholesome preparation of foods and other home economics. As fall approaches and the crops are laid by, the tenants are furnished with teams and wagons, and huge piles of wood are prepared for winter fuel.

Several years ago a modern, fully equipped, tenants' hospital was built at Scott. It is under the direction of two efficient doctors, and the patients are attended by trained nurses, assistants, diet-cook and orderlies. There are separate quarters for men and women, with private rooms for the more serious cases. The operating room is equipped with everything needful for either minor or major operations. An ambulance is provided to bring with tender care the most lowly negro tenant, when his condition requires treatment at the hospital.

Mr. Salsbury has persistently urged a campaign to discourage the negro from using patent medicines and nostrums for their various ailments, particularly for venereal diseases and malaria. They are urged to call on the doctor for assistance instead of taking large quantities of patent medicines,



THE HOSPITAL.

select his own assistants and take such steps as he deemed necessary, but instructed to stamp out malaria and venereal diseases in the shortest possible time. A competent civil engineer was on the job almost as soon as the doctors, and in an incredibly short time improved roads were crossing the property with mathematical precision, and dredges were cutting drainage for the swamps and cleaning out the bayous.

At the end of the first year tremendous improvement had been made in health conditions. Malaria had been reduced over 50 per cent. Mosquito-breeding swamps had been almost abolished, transformed into fields of snowy cotton and waving

which range all the way from harmless and useless mixtures to very harmful and habit-forming drugs. The Medical Department is maintained for their use, and no call is ever left unheeded.

It would be difficult to suppress the negro's craving for spiritual expression, were it so desired. On the contrary, every encouragement is given their religious aspirations. There are thirty-one negro churches on the company properties. All have their regular negro pastors and contributing congregations. While they are mostly of the Baptist de-



COTTON LOADING PLATFORM.

nomination, their members claim certain excellencies in different degrees of orthodoxy. These churches are maintained by the negroes themselves, but at all times when a particular congregation has been in need of funds, these have been provided by the company until such time as the congregation has been able to repay the debt.

Probably no negro section is better supplied with schools than are to be found on this property. No negro child need go without an elementary education, and Mr. Salsbury has now under consideration a negro agricultural high school. The tenants themselves maintain quite a number of helpful religious and educational societies and associations, meeting principally in the homes, schools and churches. There are also quite a number of negro fraternal orders.

A newspaper is issued weekly for the benefit of the negro population. This paper has as editor a man of very considerable ability and attainments, and is under the general direction of a tenants' committee elected by the negro tenants from the various units of the plantation. Through this medium they are enabled to give expression of their views, and by this means keep in touch with the local management. Their activities as to their regular farm work and crop conditions are freely discussed. Notice of the work of the churches and their pastors, the meetings of their societies and all general local happenings of the week which

would be of interest to the negro population is duly recorded and eagerly looked forward to by the subscribers of the "Cotton Farmer." This paper has a paid circulation of over 1300 copies a year, confined almost entirely to the tenants of the property. In addition, a regular exchange is maintained with other newspaper offices.

The properties of the Delta & Pine Land Company of Mississippi support a colored population of over 8000 people.



AN AFTER MEETING.

The management and clerical force, however, are exclusively white, and the comfort and welfare of these white employees are given the same careful consideration. A large assembly hall is maintained at Scott, in which community meetings, parties, balls and other social functions are held. The girls have their clubs and social circles; the boys, a baseball club that challenges the surrounding towns; and on the beautiful concrete tennis court matches are played between the Scott Tennis Club and clubs from near-by cities.

For the unmarried young men employed in the office, stores, mills and shops at Scott, a club building has been supplied, equipped with baths, barber shops, games and reading rooms, making a pleasant and homelike environment in which to spend their evenings. Every effort is made to encompass the young folks of the syndicate's property with wholesome, moral surroundings.

Mr. Salsbury is one of those sympathetic, big-hearted men who considers every employe—white or black—as a member of his family. He takes a personal interest in each in-



THE PLANTATION AMBULANCE.

dividual. He is ever diligent in looking after the welfare of his people, omitting nothing that he feels will be for their good or their advancement. While he has given much, he has received much. No more loyal lot of men can be found in the world than the administrative force at Scott. His employes appreciate his personality and his generosity, and strive by good service to express their appreciation. There is harmony, cooperation and efficiency.

The same feeling is experienced and expressed by the col-



ored tenantry. Less labor trouble occurs on this vast property than in any other section of the cotton growing South. The united endeavor of white and black has built a property that not only on account of its magnitude, but because of its merit, its rich productiveness and high state of scientific agricultural attainment, has attracted the attention of the whole country. It is estimated that over 5000 cotton farmers coming from all sections of the South, visited Scott last year to "take a leaf out of the book" of successful farming enterprise.

Mr. Salsbury's efforts on behalf of his employes was at first looked on by the surrounding country as Utopian, extravagant and useless, but he has indeed proved the wisdom of the movement now being put forth by many Southern corporations for the betterment of the social and living conditions of their employes. Conceived in the desire to lend a helping hand to his dependents, it has been as bread cast upon the waters.

In other words, "It's good business."

### Special House Moving Job.

E. G. McGill, house mover and general contractor of Cumberland, Md., sends the MANUFACTURERS RECORD an account of a special house moving job recently completed at Hagerstown, Md.

Eight frame single, 6-room houses, and one 12-room double brick and stucco house, were moved a distance of a third of a mile. The frame houses were moved on a dinky railroad with a 3-foot gauge and 56-pound rails. Two tracks were laid the width of the double house.

The ground was in celery ridges, but by using a four-horse road grader, a good level road bed was soon obtained, and with the use of narrow gauge ties, a good complete road was constructed. Four pony trucks of four wheels each were coupled together from track to track by a 6x10 timber, with



DOUBLE TRACK RAILROAD USED IN HOUSE MOVING  
a truss rod support. Then a 14x14 timber 44 feet long resting directly over the king bolts, coupled up each set to suit the length of the building to be hauled, with needles 12x12-inch, 36 feet long every six feet crossing them as carrying timbers. The houses all had full cellars, 6½ feet deep, and by grading down and removing foundation walls, the hauling frame was backed in under as far as possible. The buildings were in a row and built up close together, high off the ground. Coming up crosswise to them it was necessary to turn each building one-quarter turn to set on the platform. This turning was done on rollers, four inches in diameter and the plant track, the rollers remaining in place until the houses were landed at their locations. Landing on a very short curve, the rear end could not land over the lot properly. The tracks were laid on past the location. Then the tracks were opened

back in the rear, thrown over by crowbars, so that the house would land just where desired when backed up to location.

The power for hauling was an improved capstan, with a five-eighth cable, 610 feet long, all anchored to "dead men" ahead, using snatch blocks around the curves, and wound up by a one horse 11-foot sweep, using single line on truck hauling rollers, block and tackle.

Where a house had to be turned completely around, it was done by using two sides of a "Y" as railroad engines are turned.

The houses were moved to their destination through peat marsh, much water being encountered at times.

The contractor is now engaged in moving the Washington Street Square Methodist Episcopal Church, making room for the new church building on the site of the old one.

### \$2,500,000 Masonic Temple for St. Louis.

The cost of the temple to be erected in St. Louis by the York Rite Masons is placed at \$2,500,000. Ground area of the building is approximately 150 by 300 feet. Construction is to be fireproof, of structural steel and concrete. The base-



\$2,500,000 YORK RITE MASONIC TEMPLE, ST. LOUIS.

ment will contain a large dining room and other facilities, while the first floor will provide a theater to seat 2000 and offices for the various organizations.

The second floor will contain three lodge rooms for the Eastern Star and on top of this there will be eight Blue Lodge rooms with all accessories. Quarters for the Knight Templars will be provided on the fifth floor and above this there will be quarters for the Chapter and Council.

Eames & Young and Albert Groves, both of St. Louis, are the associated architects, and the Westlake Construction Co., also of St. Louis, is the general contractor.

### Building Association Organized at Norfolk With Authorized Capital Stock of \$10,000,000.

Norfolk, Va.—Organizing with an authorized capital stock of \$10,000,000, the Citizens Mutual Building Association of Norfolk merges the Norfolk Classified Building Association of Norfolk, the Heptasophian Building and Loan Association and the Citizens Building Association, Inc. Barton Myers will be president of the new organization, with F. M. Killiam, vice-president, and J. A. Winslow, treasurer. The board of directors is composed of the officers and W. Frank Robertson, T. W. Hatch, C. Fred Bonney, F. E. Killiam, H. A. Seawell, E. M. Baum, W. T. Curdts, Jr. and E. M. Baum, Jr.

Mr. Curdts will be the secretary of the new association.



## SOUTH CAROLINA TO ADVERTISE BROADLY.

### Publicity Conference Called by Governor McLeod Decides to Raise \$100,000—Delegates from Thirty-Three Counties Attend Meeting.

Columbia, S. C., September 17.—Responding to a call issued at the suggestion of Governor Thomas G. McLeod, one hundred and seventy-five delegates representing thirty-three counties, met in conference at the Jefferson Hotel in this city last week to discuss means of advertising the great resources and the attractions which South Carolina offers to homeseekers and industrial interests looking for opportunities to make profitable investment. The conference was marked by a spirit of sound optimism as manifested by the statements of the delegates, who determined to raise a \$100,000 publicity fund for carrying out a comprehensive and definite advertising campaign.

Governor McLeod called the meeting to order and briefly stated the object of the conference. Temporary organization was effected with Dr. W. D. Melton, president of the University of South Carolina, as chairman and Will Timmons of Greenville, secretary. Governor McLeod expressed the belief that the conference was the beginning of a great forward movement for the state. Other speakers discussed various phases of the progress of South Carolina which should be benefitted by intelligent advertising.

In connection with the conference the editor of the MANUFACTURERS RECORD wired Governor McLeod as follows:

"Permit me to express my sincere hope that at the meeting today called for the purpose of making known to the world the resources and advantages of South Carolina, you may have such enthusiastic co-operation on the part of the people of the whole state that the work of this day will mark a new epoch in the history of your great state.

"With a background of more than forty years of study of the South and of business conditions in all parts of the country, I believe the opportunity at present for attracting the attention of the people of all sections to the opportunities offered by the South was never before so great. The condition of the wheat growers of the West presents a psychological situation affecting not merely the wheat growers but millions of other people which makes an unequalled opportunity for turning the thought of these people southward. Moreover the heavy investment of New England capital in South Carolina cotton manufacturing interests presents a rare opportunity to impress upon the capitalists of the whole country the opportunity for investment in your state as well as in the whole South.

"Liberal expenditures for publicity work on the part of Southern railroads, Southern states and Southern towns and cities would soon bring about a marvelous change for the better. The chief reason why California has attained its amazing prosperity is the boundless enthusiasm of its people and its railroads in telling the world about their state.

"I would earnestly urge that your convention insist that Southern railroads shall be more liberal in their expenditures for advertising the South and that they shall give homeseekers excursion rates to all parts of the South."

Replying to this telegram, Governor McLeod wired:

"Highly appreciate your splendid message in connection with our Advertising and Publicity Conference. I am giving the message publication. I am delighted to report that the conference was a pronounced success, was well attended and highly enthusiastic. Organization work was begun and the future is bright for the success of our first efforts. I believe the conference signalized the beginning of a new day for South Carolina."

To administer the fund as proposed, a publicity commission with authority to establish the requisite organization was selected. This commission is composed of one member from each of the congressional districts and includes the following: First district, T. W. Thornhill, Charleston; Second district, P. F. Henderson, Aiken; Third district, George B. Cromer, Newberry; Fourth district, W. P. Conyers, Greenville; Fifth district, A. L. Gaston, Chester; Sixth district, C. W. Coker, Hartsville; Seventh district, W. D. Melton, Columbia.

Specific details for advertising the state have not been worked out, but it has been tentatively arranged to ask the general assembly for an appropriation of half the fund and raise the remainder by subscription. A "South Carolina Day" will probably be designated by the committee, when the purposes of the movement will be fully outlined and various details in connection with the advertising campaign discussed.

## Cold Storage Warehouses in Birmingham.

Birmingham Ice & Cold Storage Co.,

Birmingham, Alabama, September 10.

Editor *Manufacturers Record*:

My attention has been called to the article in your last issue headed "Cold Storage Warehouses Needed," from which article the indication is that this city lacks cold storage facilities for the protection of food stuffs and the carrying on of business under modern conditions, and that there is not a cold storage warehouse in this State available for carrying perishable farm products, upon which farmers can secure loans.

The facts in the case are, that the city of Birmingham has ample cold storage facilities of the most modern type and such storage is equipped to handle perishable farm products. What is lacking, however, is a source of Governmental loans on perishable farm products.

Our company has been in the cold storage business for a number of years, and operates a cold storage warehouse of the latest type of construction and equipment, having approximately one million cubic feet of space, and feeling that your article unintentionally does us an injury, we are writing to advise that so far as we have been able to ascertain, there are no cold storages in the country operated as "Bonded" or "Licensed" cold storages, an impression to the contrary notwithstanding.

We quote as follows from a letter of August 28, 1923, signed by F. G. Crout, "In charge, Atlanta Office, Administration United States Warehouse Act:—"

"This acknowledges receipt of your letter of the 27th inst., in which we inquired regarding the operation of cold storage warehouses under the United States Warehouse Act.

"We regret very much to advise that such warehouses are not eligible to be licensed and bonded under the Warehouse Act.

"So far, warehouses storing cotton, wool, tobacco and grain, are eligible for licenses. We have not entered the cold storage field and I am unable to advise just when we may do so."

We also quote from a letter of September 6, 1923, signed by H. S. Yohe, In Charge, Administration, United States Warehouse Act, United States Department of Agriculture, Bureau of Agricultural Economics, Washington:

"Answering your letter of September 3 with reference to the licensing of cold storage warehouses, there is no Federal law to our knowledge on this subject and certainly this Department is not licensing cold storage plants" \* \* \* "The Warehouse Act is broad enough to include the storage of such commodities as ordinarily go into cold storage plants, but funds at our disposal for administering this Act are quite limited. That naturally limits our activities. It will be some time before we can make an extension so as to include such cold storage products as eggs, butter and other products which generally go into cold storage.

"As far as I am advised neither the Farm Loan Banks nor the Federal Reserve Banks have made any direct loans on such perishable products as usually require cold storage."

We think that the above will show that this article creates an erroneous impression, and after you have verified the information that we give herein, may we ask that you make suitable correction through your journal.

J. FRANK RUSHTON, President.

[The editorial to which Mr. Rushton takes exception was based on statements appearing day after day in advertisements in Birmingham newspapers and to which so far as we know no reply was made by Mr. Rushton.—Editor MANUFACTURERS RECORD.]

### Tulsa's Proposed Petroleum Congress and Exposition.

Tulsa, Okla., Sept. 15—[Special.]—Problems vital to the oil industry and its relationship with the consuming public are expected to be threshed out at the sessions of the Petroleum Congress which will meet in Tulsa, October 9 and 10 in connection with the International Petroleum Exposition and Congress, which opens October 8 and lasts an entire week.

Leading representatives of the producing, refining and marketing branches of the industry will present their problems for the consideration of the entire industry, as well as the public. Such vital problems as the standardization of oil field equipment also will be discussed, the leading speaker in this division being William A. Durgin of the Division of Simplified Practice of the Department of Commerce. Congressman E. B. Howard and others will discuss problems arising from petroleum legislation.

At the congress sessions there will be a liberal representation of foreign nations and companies, giving a truly international atmosphere to the meetings. The Latin-American countries which are just now being opened up to oil development and exploration will send numerous delegates. Senor Don Francisco Sanchez Latour, minister to the United States from Guatemala, will attend with several of his countrymen; Dr. Santiago F. Bedoya, secretary of the Peruvian Embassy at Washington, will make a short talk on "Peruvian Petroleum;" Bolivia will be represented on the program by J. Cueva Garcia; the Japanese delegate will be A. M. Kashiwa of the firm of Suzuki & Co., Ltd.; T. O. Chu, according to a cablegram from Dr. Ting, director of the National Geological Survey of China, will represent that country, while Captain Paul Vascello, who has charge of the fuel and lubricating oil problems of the French Navy, will represent his country as an observer. Many other foreign delegates also will attend.

The exhibits at the exposition are being assembled with a view to depicting every phase of the petroleum industry, as well as to trace petroleum development from its early days up to the present. The drilling tools used by Col. E. L. Drake on the first oil well in America in 1859 will be exhibited. They are owned by Lewis Emery, Jr., of Bradford, Pa., and, since their acquisition by him in the early 70's, have not been shown outside his private museum. Mr. Emery also is planning to attend and show the "youngsters" of the industry how wells were "kicked down" by the "spring pole" method. The bit which drilled the first well in the famous Bradford pool also will be shown, as will relics of the first commercial well completed in the Mid-Continent field.

Of great educational value will be the miniature refinery assembly. This includes tiny oil wells from which oil is sent by pipe line to the refinery, which embraces all the units necessary to a complete modern plant. This display also includes loading racks, tank cars and tank wagons, with the final stage in the distribution of petroleum products depicted by a small filling station pumping gasoline into the tank of a motor car.

In the scientific and technical section one of the important exhibits will be a complete testing laboratory in which chemists and other operatives will be occupied throughout the exposition making regular and special tests of crude petroleum and its products. This exhibit will show the public that a great deal more enters into the refining of petroleum than the mere boiling of crude oil in a still—that, as a matter of fact, the maintenance and improvement in the quality of petroleum products is possible only by continued scientific effort.

In this section of the exposition also will be assemblies of material gathered by various federal and state bureaus, geological societies and other organizations. One of the features will be a core of the producing sand in the famous Burbank field of Osage County, Oklahoma. This core will be taken with a diamond core drill, which is used to explore territories for oil structures.

Outside the buildings will be an assembly of drilling outfits, illustrating the standard cable tool, rotary and diamond drill methods of "making hole."

Rapid progress is being made on the work of erecting the group of steel buildings which will house the exposition. These are in the vicinity of Convention Hall, near the business center of Tulsa. The hall itself will be adequate in size only for the holding of the petroleum congress and various convention sessions. Two of the buildings each will be 300 by 60 feet in dimension, while another will be 60 by 160 feet. In addition there will be several arcades in which will be the booths of various manufacturers of petroleum equipment, more than 130 firms already having engaged space.

Parades and pageantry will play a part in the program that is being arranged for the amusement of visitors. Receptions and dinners will be given for delegates, and other interesting affairs are scheduled.

Numerous organizations will hold their conventions in Tulsa during the week, prominent among which will be the Southwestern Business Congress, the Association of Natural Gasoline Manufacturers, Western Petroleum Refiners' Association, the Mid-West Section of the National Association of Purchasing Agents, the Institute of Petroleum Technologists, the Mid-Continent Section of the American Society of Mechanical Engineers, the Oklahoma Technical Club and the Oklahoma Oil Jobbers' Association.

Special rates have been granted for the exposition by the railroads, a national advertising and publicity campaign is being conducted, and it is expected that from 100,000 to 150,000 persons will visit the exposition during the week of October 8 to 14.

### Wage Advance for Anthracite Miners Believed to Presage Strike Next Spring in Bituminous Fields.

Huntington, W. Va., September 15—[Special.]—The fact that anthracite operators disgracefully capitulated to the miners' demands for higher wages in the anthracite fields is regarded by southern West Virginia coal operators in many sections as making it certain there will be a similar demand made upon the operators in bituminous fields at the expiration of the present contract on April 1, notwithstanding the fact that nearly all grades of bituminous are now being sold below the cost of production. In the event that such a demand should be made, individual coal operators in this section of West Virginia, headquarters for companies in many parts of the state, anticipate a coal strike which will eclipse any held in recent years.

Operators here say the fact that the miners' union succeeded in securing so general a compliance with its demand in the anthracite strike will lead the union to demand all that it can exact from the bituminous operators with the expectation of having some neutral agency force a settlement favorable to the greater part of the union demand, with threats of a "trouncing" of the operators. Inasmuch as the anthracite miners were able to secure an advance in wages, so it is considered probable that the bituminous miners will think they are entitled to an advance and will expect John L. Lewis to secure it for them. Having succeeded in a large measure in securing what they struck for in anthracite territory, the union will believe, coal men assert, that they will have power to enforce its demands and hence some southern West Virginia coal men think that a strike will be inevitable.

Just how operators of union bituminous mines will be able to grant any further wage advances, it is difficult to see inasmuch as such operators are now sustaining heavy losses. Mines are either closed down and deteriorating or else are being operated at a loss, for the average grade of coal such as mine run which is produced in larger volume



than any other grade is selling at from \$1.60 to \$2 per ton or below the cost of production, since on an average it costs even the efficiently operated mines about \$2.25 to produce a ton of coal. When the present contract expires it will be incumbent, many producers claim, for the operators of mines in bituminous regions either to lower the scale or resist further advances, especially if prices continue on their present level—lower than when the last contract was negotiated. It is generally considered that a deadlock is in prospect and that a strike next year, if it should be precipitated by the exorbitant demands of the union, will be of longer duration and far more bitter than the strike of 1922.

In case such a strike does come the companies who refused to sign a union contract at the end of the last strike and built up working forces on the open shop plan will be in a much better position than they were two years ago for at that time they were under the necessity of making the transition from one basis to another.

### The New Chautauqua of the Ozarks.

By A. C. MILLER, D. D., Editor, Arkansas Methodist, Little Rock.

The value of a summer Assembly for the Methodist Episcopal Church South had been realized for some time, when, three years ago, a group of Western men, preachers and laymen of the church, met at Lake Junaluska, North Carolina, and resolved to establish such an Assembly for the Methodist Church west of the Mississippi. Through the twelve Conferences of the church in Missouri, Oklahoma, Texas, Louisiana and Arkansas a commission was authorized to seek a location. When the announcement was made, a score of towns in the Ozarks region presented attractive offers of land and money, as a result of which in the summer of 1921 the commissioners selected Fayetteville, Arkansas, because of its many advantages, and the large bonus.

The citizens of Fayetteville raised \$100,000 by voluntary subscription and purchased 400 acres of choice land adjacent to the city, gave it to the Assembly, and added a cash bonus of \$35,000. They built a fine drive up the mountain to the Assembly, and established connection with the city water, sewer and light systems. These utilities require no care or expense to the Assembly for maintenance, and are worth to it more than if they had been constructed by the Assembly at an expenditure of \$75,000.

The city of Fayetteville itself is in northwest Arkansas, within a few miles of Missouri and Oklahoma, and on the main line of the Frisco Railway at the juncture of two branches. It is thus possible to travel from the principal cities of the patronizing territory in a single night. The population is 5000, and the altitude on the city square is 1400 feet. The atmosphere is cool and bracing, the water supply abundant and sanitary conditions excellent. The city is surrounded by a great fruit and diversified farming country.

The site of the Assembly includes a plateau 1722 feet high, just outside the city limits. From this elevation the view, unobstructed for fifty miles in all directions, is pronounced by world travelers one of the most beautiful to be found. Rising 600 feet above the White River valley, the mountain gets the fresh breezes from the forests and mountain streams and during the hottest weather is a cool retreat. In the opinion of the writer there is no other spot in the Mississippi Valley that combines in such a high degree all the requirements of a safe and pleasant summer resort.

This plateau, covered with both native and imported trees, has been developed according to plans prepared by the well-known landscape architects, Hare and Hare, of Kansas City.

The Sky Line Drive, circling the Assembly enclosure, affords a kaleidoscopic view in all directions even to Oklahoma and Missouri, and along picturesque drives the building lots are artistically grouped. On these lots already attractive cottages are going up and soon a colony of summer homes will surround the Assembly.

Last fall water and sewer mains were laid so that every lot may have connections, and a 50,000 gallon water tank has been erected. It is filled with scientifically treated city water from the White River. A big old residence has been remodeled making an ideal superintendent's home. A handsome and spacious cafeteria of native stone has been built and here meals are served at moderate prices. Two dormitories and fourteen cottages have been erected for guests, and bath houses and an automobile camp furnish modern conveniences. There is a quaint chapel with class rooms seating 600 people, and an outdoor amphitheater where thousands gather under the forest shade.

On the east side, away from the city, is a forest filled with springs and caves, coves and bluffs, and fern and bush and vine in great profusion and variety. Beyond is the Happy Hollow Farm or Leighton place, where the golf course, play grounds, and lake will be developed. Within easy reach is a quarter of a mile of White River secured to give visitors boating, bathing and fishing privileges without trespassing.

The Assembly opened on June 20 with Hon. Josephus Daniels and Bishop James Atkins as principal speakers and an assemblage of many thousands. A continuous program has followed, with bishops, well known secretaries and other noted speakers, concerts and pageants as attractions. The living accommodations have been filled with visitors from many states.

On July 12 the board of directors, representing the twelve Conferences of the five states, held its first annual meeting and adopted the following five-year program of improvements: Build a \$100,000 hotel, a \$50,000 Missions building, a \$50,000 Sunday School building, a \$25,000 Epworth League building, a \$25,000 Woman's building, a \$25,000 Auditorium, spend \$15,000 on lake and \$10,000 on minor improvements, and raise an endowment of \$200,000 to maintain administration and program.

Superintendent J. L. Bond, for six years previous State Superintendent of Public Instruction in Arkansas, who had managed the enterprise during its incipency, was elected and the following officers elected: Dr. A. C. Millar, editor of Arkansas Methodist, president; Dr. G. S. Sexton, president of Centenary College, vice president; Dr. C. O. Ransford, editor of St. Louis Christian Advocate, secretary, and Thos. L. Hart, cashier of the Arkansas National Bank, Fayetteville, treasurer. The executive committee, including the above and five others, was authorized to proceed as rapidly as possible with the program of money-raising and improvement.

The lots to be sold lie well and have connection with sewer and water mains, and are adjacent to a modern educational community in a favored section of the United States. The prices range from \$250 for small lots on the outside to \$2000 for the best. A cottage can be used by its owner during the summer and rented for the rest of the year to university students and families.

The mountain on which the Western Methodist Assembly has its site was originally called East Mountain, but the Assembly Board renamed it Mt. Sequoyah in honor of the famous Cherokee chief who gave his people an alphabet and led them West, camping on the sad journey at the big spring at its foot.

As the Methodist Episcopal Church, South, in the twelve Conferences has a membership of 800,000, it is hoped that soon Mt. Sequoyah will be mentioned all over the land with Lake Junaluska and Chautauqua.



## GOVERNOR McLEOD OF SOUTH CAROLINA ON NEGRO MIGRATION.

### Peach and Grape Culture, Improved Educational Facilities, Good Roads and Cotton Mills, Discussed.

Montreat, N. C., September 14—[Special]—Governor Thomas G. McLeod, of South Carolina, who has been spending two weeks in the mountains near Montreat, in the course of an interview with a correspondent of the MANUFACTURERS RECORD spoke with emphasis concerning the migration of negroes from the South to northern states as follows:

"The stuff that is appearing in the Northern and Eastern press as to the causes for the negroes leaving the South is all sentimental and psychological rot, for the negroes know they have no reason to fear the Ku Klux, and ninety-nine out of every hundred have no desire for social equality. They are going North and East simply because they can get more wages in those sections as the people there can afford to pay more. If we do not put our agriculture on a basis to yield a better living and more profits, then not only the negroes but many white people will also leave the state. While it is estimated that 50,000 negroes have already gone from South Carolina, still in many sections their departure has not been any serious loss. In fact there are many still who could go with benefit to the state. It is queer how that the presence of the negroes in such large numbers in the South has, in a sense, long been considered a problem, but when this unexpected solution is offered through their departure, a great cry arises.

"Rotation and diversification of crops and co-operative marketing are what I believe will be the best means of making agriculture profitable in our state," declared Governor McLeod. Continuing, he said, "I believe the practice of landlords in requiring standing rent in payment for the tilling of their land is wrong. I think that the old-time idea of share-cropping in which the one who farms as well as the land owner invests something, the landowner his land, fertilizer and live stock and the farmer his labor, is best for all concerned, for in that way the industrious may be stimulated to greater industry because he knows that the more that is produced and the more profits made the greater benefits he will derive."

As a phase of agriculture that Governor McLeod regards as being profitable and should be gone into on a larger scale is peach growing and grape culture. Along this line the Governor said:

"There are very many sections of South Carolina where the soil and climate are ideal for growing peaches which find a ready market North, East and West, and if proper care is exercised, and there are convenient railroad facilities, there is no reason why growers should not reap splendid financial returns. Take for instance the section around McBee and extending on into North Carolina around Hamlet. Not so many years ago this land was considered practically worthless and could be purchased for from ten to fifteen cents an acre. Someone recognized that it was a good soil and climate for peach growing. Orchards were set out and now thousands of trees are bearing fruit which finds a ready cash market, and with excellent profit. Around McBee there are orchards which the first year of full bearing yielded sufficient profit to pay for the planting of the trees and all attention—and after the second year orchards require painstaking and careful working—up to that time. From around Hamlet, N. C., it is said that last year there were shipped 1250 carloads of peaches, and though this is considered an 'off year,' as more trees have come into bearing, the number of cars will exceed 3500 this season.

"In the northern part of the state, particularly over towards Pickens County, I think grapes could well be grown

extensively, for grapes produced in that section come in just before the New York crop and always find a ready market. It was thought that when the national prohibition law came into effect that the great industry of California would be ruined, but the growers quickly adjusted themselves to the situation, and are finding today that great profits can be made by producing the refreshing but harmless grape juice, which is now consumed eight times more than it was only a few years past, and by utilizing the other by-products of the grape."

Referring to the educational advantages in South Carolina Governor McLeod said: "Our institutions include Clemson College, which has no superior, and I doubt equal, in the Southern States; Winthrop College for women, which outranks everything of its kind in the South, and the South Carolina Military Academy generally known as the Citadel, which for military training and efficiency ranks next to West Point in the whole country. There is the State University, which has made a good showing, and as it is now being developed it will make an even better showing. The public schools of the state are accomplishing a fine work, and will do even more in the immediate future. Illiteracy, concerning which there has been much publicity far and wide, can be readily eliminated completely if in every county there are enough persons sufficiently interested to co-operate with educational workers in conducting night and 'opportunity' schools, where those who for any reason have been unable to get even the rudiments of an education may be enabled at least to enjoy the privilege of reading, writing, and being able to do the work in arithmetic such as comes up in every home and in every occupation.

"Have you ever realized," said the Governor, "that besides possessing such splendid institutions of learning, we are appropriating over \$1,800,000 the present year for public schools; that the state highway department is maintaining in excellent condition a large and extending system of permanent highways; and to meet this, together with all the administrative expense of the state government, salaries, rentals and other incidentals, that the taxpayer is required to pay only thirty cents for every \$1000 worth of property he owns on the basis of its assessed value, which as you know is considerably less than its actual value? Well, that is true, and of the thirty cents approximately 30 per cent or 10 cents pass back to the county in which the taxpayer resides for the support of the education work through the public schools of that county. Eventually, I hope that by indirect taxation no state levy will be required and that the only direct levies will be by the different counties for their own particular local purposes."

Speaking of the wonderful hard surface roads in North Carolina, which are a joy to every tourist and especially every motorist, Governor McLeod was asked for his views on South Carolina building a system of hard surface roads in his state.

"As you know," said he, "under the constitution of the state a bond issue for that purpose would have to be submitted to the voters, and two-thirds of them would have to vote favorably. Personally, I think that in many sections of the state the material immediately available can be used to economical and splendid advantage, but I do believe that a system of fine highways connecting the principal counties would be of immense value to all the people of the state, as it would aid tremendously in the transportation problem that will arise as agricultural diversification is practiced more and more, and co-operative marketing becomes a factor in our agricultural and commercial life. I think that the limit at the outset should be not over \$25,000,000 worth of bonds. At present the roads that are being built and maintained by the aid of state funds are being constructed on the 'pay-as-you-go' basis, and not by a bond issue."

Governor McLeod is of the opinion that the textile industry

of New England will eventually move South, but he does not expect any sudden and extensive change until the present machinery in operation in New England cotton mills depreciates to an extent that makes it practically worthless. Referring to the recent purchase of large cotton mills in South Carolina by New England interests he said that he hoped that the Southerners who established and so successfully conducted the business previously would reinvest and build more mills, for while outside capital is welcomed to the state, he regards Southern men who know Southern conditions to be better qualified to manage successfully Southern industries employing large numbers of Southern people. He cites the example of Gaston County, North Carolina, where there are one hundred mills all owned by local men and built largely from dividends earned by the mills first established.

### Some Sidelights on Conditions in Bulgaria.

Krasno-Selo, Sofia, Bulgaria, Aug. 13.

*Editor Manufacturers Record:*

It hurts my national pride to acknowledge that Bulgarian physicians in general look down on all American M. D.'s, considering them as a rule mere smatterers in medical lore and skill. This attitude has been going on for the past 35 years. I am one of the fresh victims thereto. Had I not been discharged, I would have sent you a terse description of the overthrow of the Agrarian government the 9th of June last. Being in a precarious state of mind and social stand, I couldn't have collected at that hour my wits together to have saved my soul.

Stamboulisky's death wasn't a soft snap. He was brutally killed as an indemnification and in proportion to the misery, tears and blood he had been the means of causing to others. The point, however, is, that no one of the newly constituted administration heeds the lesson. They all are following after his steps; doing away with the freedom of speech and press and personal liberty. Arrests, imprisonments, beatings en masse, Ku Klux-like murders are the order of the day. Two days ago at Plevna there were condemned 84 "mutineers," four of whom got death penalty by hanging. In the near future hundreds upon hundreds of other mutineers are awaiting indictment and trial.

The other day four of the old parties fused together to form a single party bedubbed "Democratic Concord," which ensemble with the military men and the secret conspiratory organization "Koobrat" (Fashisti), are to challenge defyingly the followers of the Communist party, with the open purpose of paralyzing their activities and destroying them permanently.

Thus, there are at present five main parties in my sorry little country, to wit—Democratic-Concord, National-Liberals, Social-Democrats, Communists and the Agrarian Union, not figuring on Republicans, Anarchists, Neutrals, etc. Why, physicians themselves are divided into four medical (not political) parties. There now! Come along you poor Americans and copy our exuberance of parties and partisanship.

This summer's crop, tobacco included, bids fair to be a good one, even splendid. Did we have an outlet on the Aegean Sea, we certainly would have fared much better, putting it in the least pretentious manner.

House shortage in Sofia as well as throughout the kingdom is severe, pitiful. Because of the dearth of money and the high cost of building material, very few people can afford to erect as little as a shanty of a home. On this account partly, the death rate of tuberculosis is 300 per 100,000 inhabitants.

Living all around has jumped 35 to 40 times from the pre-war normal (some articles are one hundred times dearer); whereas wages have increased 16 to 18 times at best. Salaries to government employes are only ninefold

higher. For instance, a day's wages previous to 1914 could buy 50 pounds of bread, 15 pounds meat, 5 pounds butter; four days' bought a pair of shoes; 16 days' bought a suit of clothes, as against 20 pounds of bread today or 5 pounds meat or 2 pounds of butter; today 8 days' for shoes; 40 days' for a costume of a less durable make of today. If I were to hire a residential office, the kind I held in Toledo, Ohio, in 1910, for \$18 a month, a two-story building modernly installed, I would have to pay 6000-10,000 leva per month, while my salary was only 2800 leva.

Right after the coup d'etat, our currency went up 40 points, 72 leva to the dollar. But recently it has gone down again—110 leva for one dollar.

Macedonians are crying to Heaven for help. The regime under the Serbian yoke is goading, dreadful, agonizing. I believe, pretty soon they are bound to rise up against the tyrannic oppressors, Italy standing by them for food, besides the sympathy and co-operation by Croats, Slovenians, Montenegrins and Albanians, and the Turks to boot.

In cases where surgical interference is indicated, unavoidable—all palliatives, salves, hypodermics and such-like are only worsening the condition and jeopardizing the patient's life.

In 1878 European diplomacy committed the unpardonable sin in allotting Macedonia to Turkey. Were their representatives truer prophets, more qualified diagnosticians and less inter-jealous there never would have broken out the Balkan wars, the world war; there never would have been a martyred and Sovietized Russia; there never would have been expected a cataclysmal Germany. Yes, sir, should the Allies fail to bring Jugo-Slavia, that is, Serbia, proper to her senses, I tell you the earth will be shaken to its very core, once Macedonians arm themselves to fight their autonomous independence out. Every man, every woman, every child in Macedonia is a revolutionary.

May God give wisdom and moderation to the French, diminish the Czaraincy of the Britons and coerce America into less aloofness and shoulder-shrugging.

DR. MICHAEL E. TEMCOFF.

### To Develop 160 Acres in Florida for Homesites.

The Redland Grove-Homes Co. of Homestead, Fla. and Albany, N. Y., recently incorporated with a capital stock of \$350,000, plans to develop a tract of 160 acres near Homestead for homesites, installing water, sewerage and lighting facilities and erecting a community building and stores. With reference to its plans, the company writes the MANUFACTURERS RECORD:

"The Redland Grove-Homes Company have purchased 160 acres in the Redlands which has been divided into four forty-acre lots by two intersecting roads. On the outside of each forty acres will be cut fifty-foot lots, 150 feet in depth.

"Where the central roads intersect, or in the center of the 160 acres, will be built a large community building on a circular plot of ground 100 feet in diameter. A 100-foot roadway surrounds this community building. Bordering on the roadway and facing the community building will be eight stores. Running water, electric light and sewerage will be piped around the rear lot line of the lots. The company will therefore be interested in receiving bids for the water system, the running of electric light lines and the construction of approved septic tanks, as well as bids on the community building."

### Wants to Get a Lumber Line.

Application has been made to the Interstate Commerce Commission by the Norfolk & Western Railway Co. for authority to acquire control of the Big Sandy & Cumberland Railroad, a narrow gauge line 33 miles long from a connection with the Norfolk & Western at Devon, W. Va., to Grundy, the property desired being at present owned by the W. M. Ritter Lumber Co., of Columbus, Ohio. The road also has 3 miles of standard gauge track.



## How the United Mine Workers Have Sought to Destroy Non-Union Mining in West Virginia.

Charleston, W. Va., September 15—[Special.]—The report of the United States Coal Commission which aroused the ire of the United Mine Workers organization, in laying down the framework of an industrial code, suggested among other fundamentals:

"1. No contract is of any binding force in America which has not been freely and voluntarily entered into.

2. The right of a man to work when, where, for whom and under what conditions and at what wages he chooses, so long as he elects to assert his individual right, must never be interfered with and the state must furnish him protection and peace while he exercises this right."

The two principles enunciated by the commission as constituting among others a basis for a code by which industrial disputes could be settled in the mining industry fails to take into consideration the "check-off" upon which the union depends not only to a large extent for its existence but for the large funds which are used in the attempt to organize non-union fields, so the suggestions of the coal commission are so repugnant to the union that there is little probability that it would ever agree to the recommendations of the commission in whole or in part.

So long as the check-off is in effect, in its very nature it abridges the right of a man to work when, where and for whom and under what conditions and at what wages he chooses, because every employee of a plant where the check-off is in vogue has a certain amount deducted from his wages, to be paid in a lump sum into the union treasury, so that a miner or mine worker has to belong to the union and do what the union dictates whether he wants to or not. The check-off is simply a weapon with which to force miners to belong to the union but it has been only one of the many instruments used by the United Mine Workers in seeking to unionize coal fields, another instrument being force.

Force has been attempted notwithstanding the report of the findings of the coal commission, as concrete instances will show. As far back as 1917 when there was an agreement in effect between the government, the miners' union and the non-union operators not to alter the status quo of the union and non-union fields at that time, an attempt was made to organize the mine of the E. E. White Coal Company at Glen White, W. Va. and when union miners failed to accomplish that, an attempt was made under the leadership of an unnaturalized Italian and an organizer for the United Mine Workers in District 29 to shoot up and blow up the tipples of the company. Stretching over a period of two years were the attacks on the plant of the Willis Branch Coal Company at Willis Branch, W. Va. The property was completely wrecked and in a state of siege at the hands of union miners employed at a plant nearby. That the union was guilty is shown by the fact that some of its leaders were arrested, tried and are now serving terms in the penitentiary and by the further fact that an enormous sum was paid to The Willis Branch Coal Company in cash by the United Mine Workers union early in the present year after the company had sued the union in the federal court for \$1,000,000. In other words the union was willing to pay a large sum rather than have the facts become public in a court of justice. Although the union has denied having paid "more than \$400,000 in damages," there is reason to believe the amount paid was at least that much.

The final chapter in the campaign of violence having for its objective the unionization of southern West Virginia fields was the armed march against Logan county in connection with which there have been several convictions. When the invasion was attempted many non-union miners helped repel the invaders dispelling the claim that the operators in some fields "are using force and coercion in preventing their men from voluntarily asserting their right to affiliate with the labor union."

Although the coal commission questions the legality and the

wisdom of the contracts in effect between non-union operators and miners under which the latter agree not to become identified with the United Mine Workers of America, such contracts are freely and voluntarily entered into, it not being compulsory for a miner to accept employment at a non-union plant in southern West Virginia if he does not care to sign such a contract. This has been sustained by the United States Supreme Court in the Hitchman case, originating in northern West Virginia.

In connection with the use of deputy sheriffs paid by coal companies such a custom became necessary in densely populated sections where the usual county police protection was inadequate and as a protection to those who did not want to join the union. Operators during the last session of the legislature agreed to the abandonment of such a plan and the enacting of a law prohibiting the employment of deputy sheriffs other than by the county, provided an adequate policing force were substituted. The labor leaders in the legislature agreed to such a program only to repudiate it afterward and send the bills agreed upon back to committee, a fact that appears to have been overlooked by the coal commission in its report.

## Construction Details on Proposed \$500,000 Paper Mill at South Jacksonville.

In connection with the proposed \$500,000 paper mill to be erected at South Jacksonville by the Florida Paper Mills Co., a subsidiary of the Grass Fibre Pulp & Paper Co. of Leesburg, Fla., and to which reference was made by the MANUFACTURERS RECORD a few weeks ago, Gilbert D. Leach, secretary-treasurer of the latter company, writes:

"Regarding the plant at South Jacksonville, we will build this under the supervision of our own engineers. We have the paper machine now, an 84 inch trim Fourdrinier with twenty-six dryer rolls, giving a maximum capacity of thirteen tons daily. We will be in the market soon for cylindrical cookers, Hollander type beating engines of about 2000 pounds capacity, motors of 60 cycle, three phase, 440 volt type, enclosed, and the necessary shafting, pipe, valves, etc. Also water tube boilers, two in number of 250 to 300 h. p. The type of buildings has not yet been decided upon, but it is probable most of them will be slow-burning iron covered frame with steel sash.

"We figure it will require about nine months to get this plant built and ready to operate, starting as soon as the transfer of the land can be effected. Abstracts are now in the hands of our attorneys but as they go back to the original Spanish grant it requires some time to examine them."

## Will Develop Timber Tract of 10,000,000 Feet.

Knoxville, Tenn.—The development of a timber tract in Greene County, Tennessee, which is estimated to contain from 8,000,000 to 10,000,000 feet of hardwood, oak and poplar timber, will be undertaken at once by the Maples Lumber Co. of this city. One sawmill has been installed and it is planned to install a second one immediately. It is estimated that two years will be required for the development of the timber and camps. Stores will be established for the accommodation of the workmen.

Much of the sawed timber will be shipped to Knoxville where it will be used at the plant of the Appalachian Flooring Mills.

## Contract for Elks Theater Building at Shreveport.

Shreveport, La.—Contract has been awarded to the Stewart-McGehee Construction Co., of Little Rock, Ark., at \$182,100, for the construction of the Elks Theater building here for Alex. Grouchy, Jr., Eugene Cazadessus and Justice H. F. Brunot, owners of the Elks Theater Co. The new building will be four stories and basement, the ground floor for six stores and the remaining floors for forty-five offices. It will be of reinforced concrete, steel and rough face brick.

Favrot & Livaudais of New Orleans are the architects.



### South Florida Building Many Hotels and Apartments—\$27,980,000 Total Since January 1.

Tampa, Fla., September 10.—From a questionnaire sent to various trade bodies in South Florida it is learned there are 19 hotels and 12 apartment houses under construction in that section of the state, many of which will be ready for winter business. The total cost of these 31 new buildings is approximately \$8,725,000.

According to the Chamber of Commerce of St. Petersburg, six new hotels and 2 apartment houses have been started in that city.

Figures compiled by the industrial bureau of the Tampa Board of Trade indicate that building operations started in South Florida since January 1st of this year amount to \$27,980,000, including money being spent on public improvements.

### New Building for Houston Conservatory of Music.

Houston, Tex.—Plans have been prepared by Wilson Davis of this city for a new building to be erected here by the Houston Conservatory of Music of which Clarence A. Hammond is the director. The new structure will be 2 stories above ground, with a deep basement which will afford space for class rooms and other purposes, and on the top there will be a roof garden and open air studio. It will be of classic architecture and will be erected of colored brick.

### Baltimore Finance Company Organized.

Organization of the Mutual Finance Corporation of Maryland, with main offices in Baltimore, has recently been effected, the company being capitalized at \$2,000,000. Its officers include Edwin Sonnehill, president; Alvin Greif, vice-president and treasurer, and Roger B. Williams, secretary.

### \$800,000 Bachelors' Apartment Club for Atlanta.

Atlanta, Ga.—Plans have been prepared by R. S. Pringle and Francis P. Smith of this city for the erection of an eight-story bachelor apartment club building here to cost \$800,000. The structure will be of the Adam type of architecture, located on a site 100 by 200 feet, the exterior to be of red-brown brick trimmed with limestone. Club features will include a spacious lounging room, reading and writing rooms, swimming pools and showers. The greater part of the basement will be devoted to club purposes, although a portion of it will be reserved for the boiler room and mechanical equipment.

The building will be erected by a company of Atlanta capitalists who have leased a site on Peachtree street adjacent to the Georgian Terrace Hotel. Jesse Draper handled the lease which was secured from the Whitehead Realty Co.

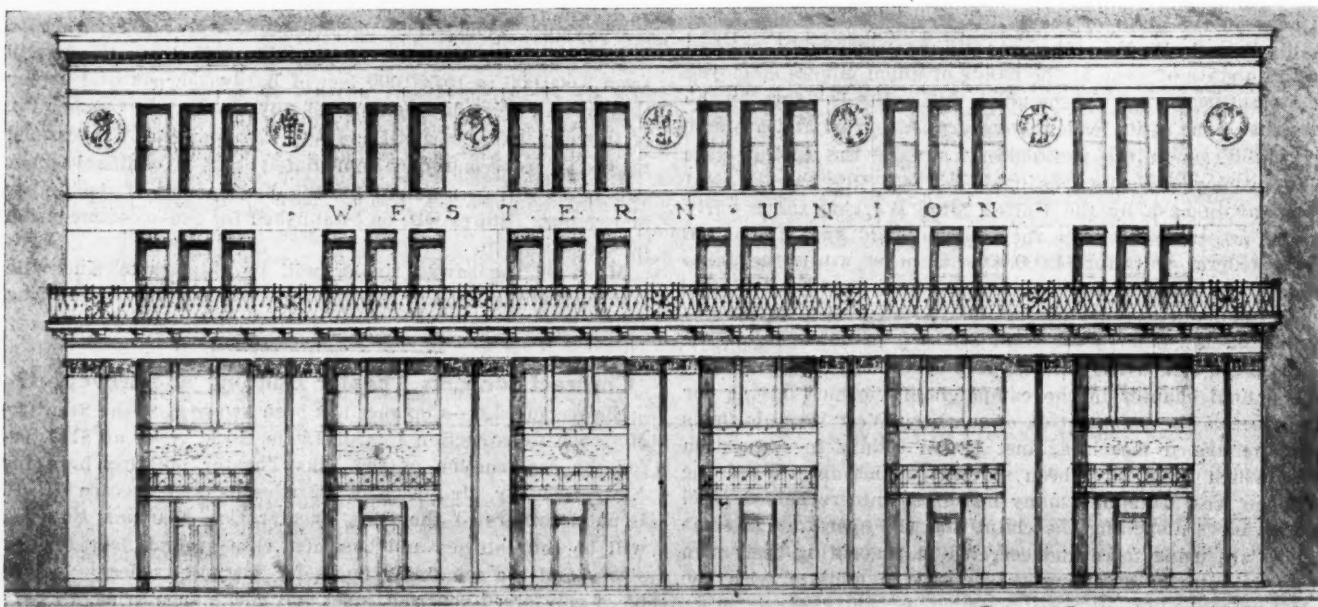
### Western Union Telegraph Company Erecting Modern Office Building in New Orleans.

The Western Union Telegraph Co. is erecting at New Orleans a modern fireproof office building of four stories with provision for eight additional stories later. It will be 88 by 132.6 feet and will have a structural steel frame, pile foundations, hollow tile arch floors and Indiana limestone on two street elevations. A spacious lobby on the first floor will be trimmed in marble and will serve as the commercial department of the company. The structure will have a ceiling finished in moulded plaster work. There will be four store entrances on Carondelet street, each of store front construction with vestibules and large show windows, the corner store to have show windows the full width of the building on Perdido street.

A considerable portion of the second floor on Carondelet street will be rented for offices and sub-divided to suit tenants, while the remaining portion of the second and all of the third and fourth floors will be equipped with telegraph facilities and used by the company.

The fifth floor to be erected later will also be used by the company and the remaining seven future floors will be devoted to offices. An attractively furnished rest room will be provided on the third floor for women employes of the company. Two elevators will be installed at present and provision made for two additional elevators when the future stories are erected. The building will be heated with a return vacuum system of steam heat having oil burning boilers. It will be provided with standpipe, hose racks and reels on every floor, the risers being connected to city mains and outside steamer connections.

Welles Bosworth, of New York, is the architect associated with O. P. Mohr, of New Orleans. Most of the work will be done by New Orleans contractors under the direction of Stone & Webster, Inc., of Boston, Mass., who are engineers for the building and will have supervision of construction operations. Contract has been awarded to John Reiss, of New Orleans, for piling and foundations and it is expected the building will be completed early in 1924.



FRONT ELEVATION OF WESTERN UNION BUILDING, NEW ORLEANS.

## NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore we often publish letters with which we do not agree.—Editor Manufacturers Record.]

### South's Pulp and Paper Possibilities.

W. Crawford Smith, Wilmington, N. C.

About 40 per cent of the 6,000,000 cords of pulp wood annually consumed in the 36,403 pulp and paper making plants in the United States is imported. Most of the plants are located along the northern and eastern border of the country, about 81 per cent of the plants being in the New England States, New York State and the Lake States, which are totally dependent on pulp wood produced elsewhere. In the South there is found a great surplus of wood for pulp production. Three adjoining Southern States, North and South Carolina, and Tennessee, have a surplus of wood to supply all the plants at their present rate of consumption for more than one hundred years.

The average cost of pulp wood delivered approximates \$20 per cord. At the port of Wilmington on deep water pulp wood can be delivered to plants via all water transportation. The delivered cost of wood at this port should run from \$2.50 to \$5.00 per cord as compared with \$20 per cord at mills of the North and East. I am informed that there are 3,500,000 acres of wooded territory in the coastal plain of North Carolina which cut from 10 to over 100 cords per acre.

The port of Wilmington is an ideal location for establishing pulp and paper industries where many conditions combine to reduce the cost of production to the minimum. In addition to the large supply of timber, we can practice reforestation with four kinds of mulberry which yield a crop of pulp wood every eight years, besides yielding an annual profit while growing to sizes of practical utility. An annual income from the leaves of the white mulberry and the use of cocoons, an income practically without cost can be annually harvested. The Europeans have grown the red and black mulberry just for its fruit for thousands of years. They make desserts, syrups, jellies, etc. from the berries. The thoughtful frugal class of farmers in some parts of the South grow the red and black mulberry for their poultry and pigs. The berries when fully ripe fall to the ground while others take their place for several months in the South. The mulberry is adapted for the purpose of making fine and thin and tough paper, as well as silk from the pulp and from the bark. The South is the logical home of the pulp and paper textile for more important reasons than the cotton textile. It is more economical to ship cotton north for making cotton textiles than shipping pulp wood for making paper. Paper like lumber should be manufactured as near the stump where it grows as is possible.

The Canadian planned embargo against further pulp wood shipment to the United States should have the effect of keeping 1,000,000 cords of pulp wood and 1,000,000 tons of the finished paper product at home, the price of which should develop the dormant wood resources of the South, where the enhancement on the price of the pulp wood lands will in a very few years pay the cost of new plants. The product can be sold at a tremendous reduction in price and yet make a better margin of profit than the average profit to the northern mill owner.

The inviting climatic conditions added to cheap wood, cheap water power, cheap labor, a cheap and abundant production of food supplies complete the greatest collection of local economic advantages.

### Oil in Florida?

WILLIAM T. WELLS, Bolton Landing, N. Y.

Each week as I read the MANUFACTURERS RECORD I want to sit down and tell you how much I enjoy it, but I know that you have many such letters and the reading of them takes up your valuable time.

I notice you mention in a recent issue that the drilling for oil at Oldsmar has been abandoned.

You may remember that during the last winter I wrote to you saying that a hotel man from near Chicago was at Melbourne and said that he had stopped at Oldsmar and looked over the ground but could see no real indication of oil.

The oil in my 400 foot well still comes constantly to the surface. Sometimes a tub under a hydrant will be covered with the oil and at other times there is much less but there is always some indication of oil in the shape of bubbles of gas or drops of oil. I know that there is oil but of course cannot tell how much, and there is the question that keeps men of money from taking hold and testing the matter. You can readily see how much more valuable an oil well would be on the east coast of Florida where tank steamers could come almost alongside the well, than a well miles away in the wilds of Texas.

The old Humboldt theory of the generation of hydrocarbons suggests a fanciful theory, some would say a crazy-man's idea. It is probable that the interior of the earth contains great masses of hydrocarbons. When a crack develops and the water from the earth's surface mixes with these hydrocarbons in the presence of superheated steam there is developed great heat and explosions of gases. Hence the eruptions of volcanoes. There are constant discoveries of new deposits of petroleum and of gas wells, and, in northern Canada a gasoline well and also a burning well. The shales of several states are found to be rich in oil and in Australia the same condition prevails.

Now the question comes in; is the petroleum rapidly forcing itself to the surface of the globe and will it in a few years be the means by which the prophecy that the world will be destroyed by fire come true?

I understand that the best educated astrologers say that the end will be about 1935. You know that the followers of Pastor Russell say that the world is now in the last lap and that the beginning of the end was when Germany commenced to overrun the world in 1914.

Perhaps this is fanciful but there is a shadow of truth in it all and no wise man these days says that anything is impossible. Napoleon said that "impossible" was "not French," and perhaps the word should be banished from all language.

### Advances to Southern Farmers Approved.

The War Finance Corporation has approved the application of the South Carolina Cotton Growers Co-Operative Association, Columbia, South Carolina, for an advance of not to exceed \$5,000,000, to finance the orderly marketing of cotton during the 1923-24 season.

The Corporation has also approved the application of the Louisiana Farm Bureau Rice Growers Co-Operative Association, Crowley, Louisiana, for an advance of not to exceed \$1,500,000, to finance the orderly marketing of rice during the 1923-24 season.



## THE IRON AND STEEL SITUATION

### No Increase in Steel Market Activity but Prices Are Firm.

Pittsburgh, Pa., September 17—[Special.]—The middle of September has now been reached without there being any increase in activity in the steel market, taken as a whole. Bookings thus far this month seem to run a trifle lighter than in the same period of August. This does not mean that there is no business being done, as there is probably as much as would have filled the steel mills to capacity 15 years ago.

The point is that September has come and has brought no improvement in the steel market. Perhaps, and indeed probably, there was no particular reason to expect an improvement, for the idea that July and August are dull months and September must necessarily be more active does not rest on any substantial foundation. It is merely the prevalent notion in the trade. However, when it was predicted that the steel market would be more active this month and it is found that it is not, there is disappointment.

Production of steel ingots in August was at a rate of about 42,400,000 tons a year. Month by month, since the record high rate of April, there has been a decrease in steel production, but the decrease has been very gradual, the rate now, at the middle of September, being about 16 per cent under the April rate. The decrease has been due chiefly to buyers requiring less heavy deliveries. Henceforth the decrease is likely to be more rapid.

The decreased call for steel does not prove that general industrial activity, involving the use of steel, has decreased. For a time more steel was being made than the industries were capable of consuming. For a time buyers bought too heavily. They were afraid the steel mills would be unable to run. There might be a coal strike April 1, the railroads were pretty certain to break down and there would be no workmen because everybody would be doing something else. Instead, the steel industry made a new record for production.

Steel prices remain at the level of last April. There is no price cutting, and as a matter of fact the mills are more punctilious than usual in holding absolutely to regular prices, as they recognize that any irregularity would be seized upon by buyers and used as an argument for revision of prices on old orders or suspension of deliveries. In a strong and rising market mills frequently if not usually cut the open price in the case of particularly desirable orders. Bars are 2.40c; shapes, 2.50c; plates, 2.50c; plain wire, 2.75c; annealed wire, 2.90c; wire nails, \$3.00; blue annealed sheets, 3.00c; black sheets, 3.85c; galvanized sheets, 5.00c; automobile sheets, 5.35c; merchant pipe, 62 per cent basing discount; tin plate, \$5.50.

Freight car shops are taking deliveries of plates and other steel as usual and have orders, in most cases, to run well into next year. There is no car buying of any consequence at present. Structural awards have been running rather light for several months and are lighter still now, largely on account of the season. The automobile trade is running very well, heavier than in July, and with excellent prospects before it. Despite overproduction the oil fields are taking very fair deliveries of oil country tubular goods.

Although order books for fourth quarter tin plate were only opened September 6 the prospective production is nearly all sold. Deliveries to oil companies and other general line consumers have been delayed somewhat as the requirements for the perishable food crops were particularly heavy. Prospects for very heavy consumption of tin plate in 1924 are regarded as excellent.

Coal and coke prices have declined, presumably on account of the anthracite settlement, but have merely lost the latest

of their recent advances, being back to their levels at about the middle of August. Further declines are possible but not particularly probable. Pittsburgh district mine-run coal is \$2.15 to \$2.25, Connellsville furnace coke \$4.75 to \$5.00 and foundry coke \$5.75 to \$6.25.

The scrap market in the Pittsburgh district has been extremely quiet and there are fewer dealers now who expect a rise, but some remain, as evidenced by their buying odd lots at prices higher than mills would be likely to pay if they were in the market. On the other hand, the Johnstown mill has bought heavy melting steel scrap for the first time in two years, and a Cleveland mill has bought, at rather a good price.

Pig iron continues quiet. Prices are steady, and on the whole stiffer than two or three weeks ago. Additional merchant furnaces are going out, which will help to equalize. Consumers are running, but are very reserved in buying, and are indisposed to contract for the whole of the fourth quarter. The market stands at \$26.50 for Bessemer and \$25 for basic, malleable and foundry, f. o. b. valley furnaces, \$1.77 freight to Pittsburgh.

### Surplus Iron Piling Up in Birmingham Yards—Volume of Sales, However, Is Increasing.

Birmingham, Ala., September 17—[Special.]—While sales of pig iron in the Birmingham district are in greater volume when the aggregate is collaborated, there is still some iron being added to the surplus stock. The lower price, \$24 per ton, No. 2 foundry, has brought about more buying and there are hopes that the make will be reached shortly. The plans for further curtailment have been postponed pending improvement in the buying. How long this postponement will continue cannot be estimated as some of the furnace companies have a large amount of iron on the yards, one company in particular stating that there was no less than \$1,000,000 worth of the product ready for shipment.

The Alabama Company will wipe off its little balance within the next 30 to 60 days, its yard tonnage not being very much. The Gulf States Steel Company will blow in its furnace again next month sometime or a little later, and in the meantime will cut down its stock of basic iron. The Tennessee Coal, Iron & Railroad Company, though not on the open market, has need for practically all of its basic iron and the little foundry iron that is being manufactured with blast furnaces at Bessemer. The Republic Iron & Steel Company with two blast furnaces in operation has not piled much iron while the Woodward Iron Company with four furnaces has some tonnage on its yards.

Furnace interests in the Birmingham district deny that there are any further concessions being given on the \$24 per ton price. A furnace interest in Tennessee, shipping into the North, has some freight differentials but there is not a great quantity of iron there and the Birmingham price is not set by that iron. Some off-grade iron was recently purchased in this district and the statement is made that this also is not fixing a base for the Birmingham district. At \$24 per ton, furnace interests say there is not a large margin between cost of production and sale price.

Spot sales are numerous in this district, the business coming in small lots, mainly from consumers in what is termed the home territory. This business is being placed in lots of one and two cars at the time, the indications pointing to a confident feeling on the part of the melters that as they need the product they can place the order and get acceptance and delivery. The railroad facilities are good and no delay is to be noted in shipments. Furnace interests are making every



effort to get movements on pig iron started, all business being appreciated. The estimate is that the surplus stock of pig iron in the district has gone above 105,000 tons.

The Gulf States Steel Company has four open hearth furnaces in operation and with some old business yet on the books the lagging market at present adds to the call for production. The big plant of the Tennessee Coal, Iron & Railroad Company at Ensley is getting back to full operation, repairs having been made in the blooming mill. Orders for various shapes of steel are being reported from time to time. The rail mill of the Ensley department will start the new year with orders sufficient to warrant steady production for six months and longer. The 50,000 ton order placed by the Louisville & Nashville Railroad Company, (instead of 30,000 tons), has been commented on considerably and other railway lines in the South and West are considering their 1924 needs, at least for the first six months. For many years it has been the policy of the Louisville & Nashville to buy as much iron and steel as possible in the Birmingham district, the indications pointing to a reciprocating spirit to the section for the immense amount of traffic furnished. The Southern Railway, also, places no little of its needs in rail and other steel products with the district manufacturers.

No announcements are made as yet as to business in steel shapes growing out of the terrible disaster in Japan being placed in this district, though it is expected that the mills here will ship some of the various shapes. For many months there has been a steady shipment of rail from Birmingham to Japan, through the port of Mobile and the Panama Canal. These shipments, are not to be interrupted, it is understood. The Steel Corporation suffered injury to one of the steel ships which was constructed at the plant of the Chickasaw Shipbuilding & Car Company at Mobile out of steel produced in Birmingham. The ship was in the harbor at Yokohama at the time of the quake and tidal wave.

The coal mining industry in the state is taking on a little impetus. The Southern Railway is watching car loadings in this territory and there is a better tonnage of coal reported. Demand for steam coal has shown some improvement lately.

The coke market is still dull but the dropping has been checked and there is hope that within a short time there will be a better demand.

The scrap iron and steel market is still nil, the demand nominal though shipments are fairly good, mostly on orders placed a few months ago and which have not been cancelled. The scrap dealers find no trouble in buying in all the old material they need.

Pressure pipe plants, radiator works and stove foundries continue their record of capacity operations. The sanitary pipe plants are picking up in their melting capacity. Ohio foundries and machine shops recently purchased upwards of 2400 tons of iron in the district, delivery during October and November. Steel fabricating plants apparently are well supplied with business, and bridge and structural steel work is not lagging so very much. Concrete bars and rods are in fairly good demand, as much concrete construction is noted throughout this territory.

Pig iron and iron and steel scrap quotations follow:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$24.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$24.50; iron of 2.75 to 3.25 per cent silicon, \$25.00; iron of 3.25 to 3.75 per cent silicon, \$25.50; iron of 3.75 to 4.25 per cent silicon, \$26.00; charcoal iron, f. o. b. furnaces \$32.00 to \$33.00.

#### OLD MATERIAL.

Old steel axles .....	\$19.00	to	\$20.00
Old iron axles .....	23.00	to	24.00
Old steel rails .....	16.00	to	17.00
Heavy melting steel .....	14.00	to	15.00
No. 1 R. R. wrought .....	14.50	to	15.00
No. 1 cast .....	19.00	to	20.00
Stove plate .....	16.00	to	17.00
Old car wheels .....	17.50	to	18.00
Old tramcar wheels .....	18.00	to	18.50
Machine shop turnings .....	7.00	to	8.00
Cast iron borings .....	8.00	to	9.00
Cast iron borings (Chem.) .....	18.00	to	19.00

## RAILROADS

### RAILROAD FREIGHT TRAFFIC INCREASING.

#### Merchandise and Miscellaneous Moving in Heavy Volume—Also Coal.

At the beginning of the fall months and with the great crop moving season at hand the railroads of the United States during the week ended September 1 loaded with revenue freight a total of 1,092,567 cars, again breaking the record for weekly loadings, this total being 22,634 cars in excess of the previous record which was established during the preceding week that ended August 25. At the same time the railroads had on hand more than 66,500 surplus freight cars immediately available for use if need be, this fact showing that the lines are in good shape to handle the impending traffic rush. The reported car shortage for the whole country was only a little more than 9400 cars.

Merchandise and miscellaneous freight led in the loadings, the total being more than 622,700 cars, an increase of over 16,600 cars as compared with the previous week. Coal loadings, with a total of 206,000 cars was 3500 cars in excess of the previous week, although grain loadings, with a total of 54,604 cars, showed a slight decrease, but livestock loadings gained 2788 in a total of 39,200 cars. Other kinds of freight displayed but slight variations.

Loadings in the South increased nearly 20 per cent as compared with the same week of last year, this being a greater rate of increase than shown by any other district.

Total loadings of revenue freight thus far this year were more than 33,100,000 cars as compared with over 27,600,000 cars for the same period of last year and with over 25,700,000 cars during the same months of 1921.

### More Funds to Develop a Coal Road.

Lewisburg, W. Va., September 15—[Special.]—Authority has been granted to the Greenbrier & Eastern Railroad operating in the Greenbrier coal field of West Virginia to issue \$1,000,000 in capital stock, and with this additional capital for expansion and extension, the company can put the property in shape to handle a larger tonnage. The road was built by residents of Charleston and of Greenbrier county to develop the smokeless coal deposits of Greenbrier county soon after the end of the World War. As a result of building the new railroad from a junction with the Sewell Valley Railroad to Marfrance in the western end of Greenbrier county, a number of mining towns sprang up and it was possible to undertake the development of a virgin coal field, previously inaccessible. A large tonnage is produced at Quinwood and shipped out over the Greenbrier & Eastern, the Sewell Valley Railroad and the Chesapeake & Ohio Railway. Among those interested in the road are John B. Laing of Lewisburg, W. Va.; W. S. Wood and Quin Morton, both of Charleston and others who also have mines on the Greenbrier & Eastern Railway.

### A Train Called "Tobacco Special."

Freight train No. 53 on the Southern Railway's Winston-Salem division and running from Winston-Salem to Barber and Charlotte, is known as the tobacco special, because of the large quantities of manufactured tobacco it daily carries from the R. J. Reynolds Tobacco Company's plant at Winston-Salem. On one day recently out of a train of 44 loaded cars 25 of them were laden with tobacco from this factory. More than 1000 cars of finished tobacco are shipped by the company every month. In addition to this the railroad carries in large quantities of Southern leaf tobacco besides shipments of foreign tobaccos.

### Railroad Improvements to Accommodate Steel Mills.

Weirton, W. Va., September 15—[Special.]—Growth of the steel industry in the vicinity of Weirton, has led the Pennsylvania Railroad Co. to mature plans, according to an announcement by J. A. McCrea, vice-president, for a large outlay for extension and betterment in and about this city. The plans include additional storage tracks at New Cumberland Junction for several hundred cars; double tracking of the branch line from the Junction to East Weirton; a drill track nearly a mile long at East Weirton, and a new storage track for passenger cars running between Weirton and Steubenville. The improvements outlined are to be completed speedily to handle the large increase in the volume of freight to and from the new by-products coke plant and sheet mill of the Weirton Steel Company, which not only operates at Weirton but has a tin mill operating at Clarksburg, W. Va., and another plant at Steubenville, Ohio. In addition to the steel works department at Weirton, the company is also operating here a by-product coke plant, a blast-furnace, an open hearth mill and rolling mills.

### New Equipment, Rails, Etc.

Santa Fe System has ordered 200 flat cars and 300 mill end gondola cars from the Pullman Co., Chicago.

Equipment inquiries reported include 6 combination mail and express cars for the Chesapeake & Ohio Railway and 4 passenger cars, 1 cafe car, 2 combination mail and baggage cars and 2 straight baggage cars for the Gulf Coast Lines.

Chesapeake & Ohio Railway is rebuilding 500 steel coal cars of 55 tons capacity, 250 at the shops of the Newport News Shipbuilding & Drydock Co., at Newport News, Va., and 250 at the American Car & Foundry Company's plant at Huntington, W. Va.

Pennsylvania Railroad has ordered 20,000 tons more of rails for this year's delivery, one-half from the United States Steel Corporation and half from the Bethlehem Steel Co. This makes the road's total rail orders for this year 138,171 tons. The orders to be placed for next year will, it is stated, be about 150,000 tons to begin with.

### To Encourage Trade With Cuba.

Louisville, Ky.—American manufacturers are urged to make exhibits at the Cuban International Fair to be held in Havana during February, 1924. R. L. McKeller, of Louisville, foreign freight traffic manager of the Southern Railway System, announces that he will be glad to assist manufacturers in arranging for exhibits and to give them any additional information in regard to it that may be desired. Mr. McKeller has recently visited Cuba and is enthusiastic over the prospects for increased business with the island. In view of the prosperous conditions now prevailing there, he considers the present an auspicious time for American business concerns to increase their trade in Cuba. Because of their favorable geographical location, he believes that Southern manufacturers should have first call on a great share of this business.

### Part of Old Line to Be Operated.

The Marshall, Elysian Fields & Southern Railway Co. has asked the Interstate Commerce Commission for authority to operate 18 miles of line running from Marshall to Elysian Fields, Tex. This is part of the old Marshall & East Texas Railway and it has been rehabilitated.

### Settlement of \$7,285,000 for Federal Control.

The Norfolk & Western Railway Co. has been awarded \$7,285,000 in settlement with the Government for the period of Federal Control.

## TEXTILE

### LOCKWOOD, GREENE & COMPANY NEGOTIATE ANOTHER BIG DEAL FOR SOUTHERN COTTON MILLS.

Acquire Group Controlled by Colonel Springs and Associates—Plants Have Total of 350,000 Spindles—Will Merge With Mills Recently Purchased from Pelzer Manufacturing Company.

Following the transaction negotiated a few weeks ago for the purchase of four cotton mills of the Pelzer Manufacturing Co. at Pelzer, S. C., at a consideration of \$9,000,000, and the previous purchase of the Tucapau Mills of Tucapau, S. C., Lockwood, Greene & Co. of Boston have just concluded a deal for the acquisition of the Leroy Springs group of cotton mills in South Carolina with a total of 225,000 spindles. The four mills of the Pelzer group contain about 136,000 spindles, and the Tucapau Mills, over 65,000 spindles. Relative to their latest purchase, Lockwood, Greene & Co. wire the MANUFACTURERS RECORD:

"We confirm report as to acquiring Springs group of mills but we have made no further statement at this time."

Mills in the Springs group include the Eureka and Springstein plants at Chester, two mills of the Fort Mill Manufacturing Co. at Fort Mill and the Lancaster Cotton Mill Co.'s mill at Lancaster. It is understood that these plants will be merged with those of the Pelzer group and all operated by a new organization, under the direction of Lockwood, Greene & Co.

No announcement has been made as to the consideration involved or the capitalization and personnel of the new organization.

### Will Manage Seneca Cotton Mill.

Anderson, S. C.—The resignation of J. B. Humbert as secretary and assistant treasurer of the Orr Cotton Mills, of which James D. Hammett is president, has been accepted by the company in order to permit Mr. Humbert to assume a position as manager of the Seneca plant of the Victor-Monaghan Co., recently acquired by interests identified with Goddard Bros. of Providence, R. I.

Marshall P. Orr, now president of the Inverness Mills of Winston-Salem, N. C., will succeed Mr. Humbert at Anderson.

### Mayflower Mill Nearing Completion.

Cramerton, N. C., September 15—[Special.]—Mayflower Mill of Cramerton Mills, Inc., is nearing completion and the installation of machinery will soon begin. The new mill consists of a three-story dye plant and weave shed, the latter to house 500 Crompton & Knowles looms, but ultimate plans are for 1200 looms. The dye plant building is designed to take care of the ultimate installation. Processes in the dye plant will be warp dyeing, Franklin dyeing and warp bleaching. The product of the weaving plant will be fancy dress goods.

J. E. Sirrine & Company, Greenville, S. C., are the engineers.

### Bleachery Lets Water and Sewerage Contract.

Greenville, S. C.—Contract has been awarded to the Fiske-Carter Construction Co. of this city for the installation of a complete water and sewerage system in the mill village of the Union Bleachery here. The contract calls for laying enough pipe to supply 90 dwellings, the improvements to include kitchen sinks, lavatories, baths, and other facilities. J. E. Sirrine & Co., of Greenville, are the engineers for the work.



### **\$7,000,000 Cotton Mill Merger in Georgia—West Point Company and Lanett Mills Plan Consolidation.**

At a meeting of the directors of the West Point Manufacturing Co. and the Lanett Cotton Mills, both of West Point, Ga., on September 19, it is announced that plans were considered for merging the two companies, which are capitalized at \$5,000,000 and \$2,000,000 respectively.

Four mills are included in the group of the West Point Manufacturing Co.—the Langdale, Shawmut, Fairfax and Riverdale mills with a total of 100,000 spindles, 2313 looms and 86 cards. The Lanett Cotton Mills have a total of 83,000 spindles, 1810 broad and 600 narrow looms and 271 cards.

With reference to the merger, the West Point Manufacturing Co. wires the MANUFACTURERS RECORDS "Plans not sufficiently developed to give information for publication at present."

### **Stockholders of Victor-Monaghan Vote to Retire Fourth of Outstanding Stock.**

Greenville, S. C.—At a meeting here of the stockholders of the Victor-Monaghan Co. decision has been reached to retire one-fourth of the outstanding common stock of the company on September 20 at \$160 per share, and on October 1 to retire one-fourth of the outstanding preferred stock at \$120 per share. It is stated that one-fourth of the common stock will be over 16,500 shares and one-fourth of the preferred, 30,000 shares. Figured on this basis the stock to be retired will amount to \$6,240,000.

The action of the stockholders followed a decision of the directors of the company to distribute the funds accumulated by the recent sale of the Wallace, Senaca and Ottaray mills.

### **New \$600,000 Cotton Mill Company to Build \$500,000 Plant of 10,000 Spindles.**

Jonesboro, Ark.—With a capital stock of \$600,000, papers of incorporation have been filed for a cotton mill company which plans to expend \$500,000 to build and equip here a mill of 10,000 spindles. A mill village for the accommodation of 250 families will also be established, the plant to provide work for about 600 operatives. R. H. Hood, formerly of Birmingham, Ala., has established an office here and is promoting the enterprise.

Officers of the company include Mayor Herbert J. Bosler, president, County Judge C. B. Gregg, vice-president, and C. W. Pittinger, secretary-treasurer, G. F. Roberts of Charlotte, N. C., will be the manager.

### **Durham Hosiery Mills Book Large Orders—Three Recent Contracts Total \$1,300,000.**

Durham, N. C.—Large orders for their products have recently been booked by the Durham Hosiery Mills, Inc., which operates plants here and at other points, and indications point to excellent business from now on. Three orders recently received by these mills total \$1,300,000 for hosiery which with other orders received previously, brings the total to \$1,500,000. Included in these recent orders is one of \$750,000 from New York and one for \$500,000 from Indianapolis.

### **Textile Mill Notes.**

The Union Bleachery & Finishing Co., of Greenville, S. C., has awarded contract to Edens & Moon, through J. E. Sirrine & Co., engineers, Greenville, to install plumbing facilities in the mill village.

The Queen Anne Textile Co. of Burlington, N. C. has been incorporated with an authorized capital stock of \$1,000,000. H. H. White of Petersburg, Va. is reported interested in the enterprise.

### **Cotton Growing in South Africa Shows a Dismal Prospect, According to a Lancashire Expert's Report.**

Manchester, England, September 4—[Special.]—Mr. G. F. Keatinge recently undertook a tour in South Africa on behalf of the Empire Cotton Growing Corporation, and in his special report he states that the Empire Corporation can do much to help and expedite cotton growing, and the moment is opportune for such assistance to be offered. "If the Corporation decides to associate itself with this important development the assistance given must be on an adequate scale. To take full advantage of the existing opportunities, a decision should be reached without delay."

Discussing the position generally, Mr. Keatinge states that the fiscal conditions of a limited tract of South Africa are well suited for the production of high class cotton.

"The supply of cheap labor is adequate for a fairly rapid development of cotton growing, but owing to the lack of certain facilities and organization, the rapid development of the industry is hampered," he says.

"On consideration of all the facts," continues Mr. Keatinge, "I would venture to guess that during the next twenty years, cotton production in South Africa may be stimulated to the extent of about 250,000 bales, and that the ultimate expansion may amount to 500,000 bales.

"If anyone contends that it can reach 1,000,000 bales I should not be disposed to say that this is not so, but such a development would necessitate a very great subdivision of the existing farms, and a considerable degree of concentration of cotton on the limited areas that are suitable for it." He urges that a strong commercial corporation should be formed for handling, marketing and financing the crop, with the support of the Union Government of South Africa and the Empire Cotton Growing Corporation. In the report it states that whereas the cost of baling and ginning in the United States is about .6d per pound, in South Africa the cost works out at 1.25d per pound even under the most effective conditions now obtainable.

It is interesting to note that in the year 1909, 62 bales of cotton were produced in South Africa. In 1911 there were only 25 bales. During the period of the war the production increased rapidly, and in 1919 1488 bales were grown. The estimate for the season ending 1922 is 2700 bales. It is stated that the average yield of lint per acre in Natal in 1918 was 74 pounds and in Transvaal 32 pounds and in 1919 80 pounds and 71 pounds, respectively. Those figures are miserably low, but it is stated that the lowness of the yield per acre is largely due to the fact that farmers include in the area which they report as sown to cotton, fields which they subsequently plough up and resow to maize owing to the cotton crop having failed.

### **Research Applied to Textile Manufactures.**

A new booklet published by the Cotton Research Company, Inc., Boston, Mass., will be appreciated by mill owners and others interested in textile manufactures. It gives information about plant surveys, conditions surrounding plants, kinds of cotton used, supplies, machinery and settings, labor, supervision, records, laboratory analysis, etc. Time studies are an important feature of the company's surveys. The company was organized four years ago by the Pacific Mills and the mills managed by Lockwood, Greene & Co., Managers, for the purpose of relieving mill executives of research problems which took much time, and also to supply the analytical point of view to those problems. The present organization performs its work under the guidance of E. D. Walen, manager, and S. S. Paine, assistant manager. The company maintains its own laboratory and testing plant.



## GOOD ROADS AND STREETS

### Alabama Opens Road Bids Totaling \$530,000.

Montgomery, Ala.—Bids have been opened by the State Highway Commission here for the construction of roads in Etowah, Morgan, Wilcox, Franklin, Winston and Cherokee counties, totaling more than 51 miles and to have an aggregate cost of \$536,029. The Etowah project will be 1 mile between Attalla and Gadsden, for which Laslie Brothers of Chattanooga submitted the lowest bid at \$38,335. For 1.3 miles of the Bee Line highway in Morgan County, the Texas Road Co. of Dallas is the lowest bidder at \$44,131.

J. W. Gwin of Birmingham submitted the lowest bid at \$105,850 for surfacing 12.5 miles in Wilcox County, while S. C. Taylor of Wilsonville, Ala., was the lowest bidder at \$81,990 for building 6 miles in Franklin County. For the construction of 20 miles in Winston County, W. C. McCoy of LaFayette, Ala., was the lowest bidder at \$166,532, and for 10.21 miles in Cherokee County, Stanley & Singer, also of LaFayette, submitted the lowest bid of \$99,191.

### Contracts for 24 Miles in Humphreys County.

Belzoni, Miss.—At a conference of the Board of Aldermen of this city and the Belzoni Road District Commissioners, contract was awarded to Graves & Gaddis, of Bolton, Miss., for 24.75 miles of hard surfaced road, the cost to be \$148,000. Roads to be built include 0.5 mile from Golden Gate to a point near Hill's Mill; 5.5 miles of Daybreak road; 3.5 miles on Pluck Plantation; 3 miles of New Wasp Lake road and 4.5 miles of Gibson road.

### Awards Contract for 21-Mile Road to Cost \$200,000.

Newton, Tex., September 17—[Special.]—Contract has been awarded to Dean Word of Itasca, Tex. for the construction of 20.94 miles of gravel road in Newton County at a cost of about \$200,000. J. C. Ramsey is the county judge and V. O. Ellis is the engineer in charge, both of Newton.

### NEW MARS BLUFF BRIDGE OVER PEE DEE RIVER.

Structure Connects Marion and Florence Counties in South Carolina—Important Link in Great Coastal Highway.

By CHARLES W. MORRISON, Secretary, Chamber of Commerce, Florence, S. C.

The recently completed Mars Bluff Bridge over the Pee Dee river, connects the counties of Marion and Florence, and stretches with its approaches for two and a quarter miles through the swamps on both sides of the river. It was completed at a cost of approximately \$170,000. It is estimated that the rate of income from a 50c toll will pay for the bridge in less than 5 years.

The crossing consists of a mile of earth fill with sand clay surface, 2100 feet of timber bridge, 362 feet of steel bridge, three quarters of a mile of concrete road and 700 feet of clay gravel road. The floor of the bridge is about 24 feet above the normal flow of the river, making it the highest bridge crossing the Pee Dee. Work was started in January, 1922 but on account of unusual floods earnest effort was not put forth until the following August, after which date it was pushed to rapid completion.

The structure is marked by bronze tablets at each end provided by Marion and Florence counties. Members of the Marion Board were, E. T. Wilcox, J. Frank Jones, and W. Bonham Smith, while members of the Florence board were, S. R. Phillips, W. L. Copeland, E. D. Sallenger, E. M. Matthews, F. J. Brand, S. R. Floyd, W. V. Gardner and B. F. Turner.

The engineers were Johnson & Roberts of Marion, S. C., who designed the structure and supervised its construction. The river bridge was built by Hyde & Baxter of Washington,



MARS BLUFF BRIDGE ACROSS PEE DEE RIVER.

D. C., the roadway and timber bridge by Chitwood & Palmer of Florence, S. C., while the concrete work was done by the Concrete Construction Co. of Columbia, S. C.

This bridge connects two remarkably productive agricul-



JUNCTION OF EARTH FILL AND CONCRETE PAVEMENT ON EAST APPROACH.

tural regions. It also opens up to the people of South Carolina and other states the popular summer resort at Myrtle Beach declared by many to be one of the best on the Atlantic



EARTH FILL APPROACH TO BRIDGE.

Coast. But far above these more or less local advantages it is of national significance as a link in the great Coastal Highway, which will eventually make comfortable transportation from New York to Jacksonville.

#### Lewis County to Build 23 Miles of Road.

Weston, W. Va., September 15—[Special.]—At a joint meeting of the county court and the special road committee for Freeman Creek district of Lewis county, an order was issued calling for bids to be filed October 15 for the construction of 23½ miles of hard road in Freeman Creek district, from the proceeds of a bond issue which was approved by the voters on November 7 of last year. One of the new highways will begin at Shadybush at the edge of Weston and run through Jackson Mill to the Harrison county line. Another will begin at Camden on the Staunton & Parkersburg road and run to Churchville and up Fink Creek two miles. Still another will run from Jackson Mill to Vadis and thence to Hurst.

#### LOUISVILLE PLANNING \$5,000,000 WATTERSON MEMORIAL BRIDGE.

Structure More Than Mile Long Would Span Ohio River.

Tentative plans for a \$5,000,000 Watterson Memorial bridge have been submitted to Mayor Huston Quin, of Louisville, Ky., and the Chamber of Commerce of that city, by engineers of Boston, Mass.

Mayor Quin wires the MANUFACTURERS RECORD with reference to the structure: "Tentative plans only for bridge across Ohio; probable length, 11-4 miles; probable bridge carriage way, 40 feet; estimated cost, \$5,000,000; Fay, Spofford & Thorndyke, engineers, Boston."

Plans for the bridge are expected to be completed early in October and after having been approved, action will be taken for beginning construction. A period of three years will be required for completion, according to estimates. The bridge suggested at a conference of the mayor, members of the Chamber of Commerce and a representative of the engineers, is a single-deck structure with a span in the center to permit river traffic to pass. It would carry two street car tracks, two roadways and a walk for pedestrians.

When plans have been approved, the city will attempt to have an act passed by Congress authorizing construction, and another act by the State legislature authorizing a bond issue.

#### Kentucky Lets Two Road Contracts—Other Plans.

Frankfort, Ky.—Contracts have been awarded by the State Highway Department for building 5.409 miles of road in Larue County, and for improving 485 feet in Shelby County. The Larue County project, on the Hodgenville-Buffalo road, was awarded to McClellan & Campbell, of Bowling Green, Ky., at \$113,703, while the Shelby County work was awarded to Monahan & Turner, of Lexington, Ky., at \$4274. Contract for furnishing 8000 tons of crushed limestone in bins for State Project No. 62, in Pendleton County was awarded to Broadus & Forbes of Richmond, Ky., at \$14,960.

Plans are now being prepared for grading and draining the Jackson-Campton road in Breathitt County, from Wildhurst to the Wolfe County line, a distance of 7.32 miles.

#### Harrison County Awards Contract for Three Roads.

Clarksburg, W. Va.—Contracts have been awarded by the Harrison County Court for 3 stretches of road in the county, including 4 miles between Laura Lee and Sardis District line in Eagle District, Wayne F. Allen, contractor at \$52,673. A contract was awarded to M. J. Fahey at \$37,234, for grading and surfacing with concrete 1 mile of road in Simpson District, while Ferguson & Holbert were the lowest bidders to grade and re-surface 1½ miles of road in Clay District, their bid being \$39,688, for a bituminous macadam surface.

#### Nueces County to Build Ten Miles of Road.

Corpus Christi, Tex., September 17—[Special.]—The construction of ten miles of road on the Corpus Christi-Kingsville highway is planned by Nueces County which has \$230,000 available for the project. Construction will consist of a 1-inch Uvalde rock asphalt top on a gravel base. Date of opening bids has not been set. Calvin E. Cock of Corpus Christi is the county engineer.

#### Dallas County to Expend \$550,000 on Road.

Dallas, Tex.—Bids were opened a few days ago by the Commissioners Court of Dallas County for paving a road north from Dallas to the Collin County line, for which \$550,000 is available. Charles E. Gross is the county auditor and the Nagle, Witt, Rollins Engineering Co. of Dallas is the engineer in charge.

# LUMBER AND BUILDING MATERIALS

## Lumber Movement Declines but Unfilled Orders Gain.

Washington, September 13.—According to reports to the National Lumber Manufacturers Association received today from 387 of the larger commercial lumber mills of the country, as compared with revised reports from 402 mills for the preceding week, the national lumber movement declined considerably in the week ending September 8, although substantially larger than for the corresponding week of 1922. The 131 reporting mills of the West Coast Lumbermen's Association and the 129 reporting mills of the Southern Pine Association, however, showed an increase in unfilled orders from 548,820,147 feet to 563,574,584 feet. For all the mills shipments were 81 and orders 82 per cent of production. For Southern pine mills these percentages were 83 and 89 and for West Coast mills 87 and 96. Most of the mills have a normal production figure for the week, according to which actual production was 102 per cent, shipments 84 per cent and orders 87 per cent.

The following table compares the lumber movement for the three weeks indicated:

	Past Week	Corresponding Week 1922	Preceding Week 1923 (Revised)
Mills .....	387	354	402
Production .....	249,583,880	213,269,145	270,587,593
Shipments .....	201,055,749	178,712,458	239,007,504
Orders .....	204,694,155	169,858,097	237,831,471

Compared with the like period of 1922 the lumber movement for the first 36 weeks of 1923 is as follows:

	Production	Shipments	Orders
1923 .....	8,965,237,401	8,908,358,206	8,343,164,085
1922 .....	7,545,937,264	7,496,628,163	7,719,677,853
1923 Increase ...	1,419,300,137	1,411,730,043	623,486,232

The West Coast Lumbermen's Association reports from Seattle that production for last week was 15 per cent above normal; new business 4 per cent below production and shipments 10 per cent below new business. Of all the new business taken during the week 47 per cent was for future water delivery, amounting to 45,177,287 feet, of which 27,139,854 was for domestic cargo delivery and 18,037,433 export. New business by rail amounted to 1600 cars. Of the week's lumber shipments 42 per cent moved by water, amounting to 36,876,953 feet, of which 30,331,312 moved coastwise and intercoastal and 6,545,641 overseas. Rail shipments totaled

1557 cars and local deliveries were 3,960,322 feet. Unfilled domestic cargo orders were 137,908,655 feet; unfilled export orders 90,288,419 and unfilled rail trade orders 5751 cars.

From New Orleans the Southern Pine Association reports a decrease of 13.5 per cent in orders below the previous week, a decrease in production of 0.7 per cent and a decrease in shipments of 15.9 per cent, while orders on hand at the end of the week were 220,361,510 feet.

The California White and Sugar Pine Manufacturers Association wires from San Francisco that the lumber demand varies from general to unusually high, and that production and shipping conditions are normal.

## Long-Bell Lumber Company to Survey 750,000 Acres of Cut-Over Timber Lands in the South.

The National Lumber Manufacturers Association has announced the inauguration of a forest survey by the Long-Bell Lumber Co., of Kansas City, Mo., of its 750,000 acres of timber land holdings in Southern states. The Long-Bell Company has established a division of forest research with John B. Woods, forest engineer, in charge for making a complete survey of its lands which comprise two blocks in eastern Texas, four in western and northwestern Louisiana, one in Arkansas and one in eastern Mississippi.

The object of the survey is to determine the character of the lands with respect to soil and topography, character and quantity of second-growth timber on cut-over areas, and the possibilities of reforestation or timber management upon all areas. The company seeks this information to decide its policy concerning cut-over areas. Some of the lands already contain a considerable quantity of second-growth timber which may or may not be of any material use as a nucleus for a new man-tended forest. There is also a considerable area of high-grade land which is probably best adapted to farming.

The whole 750,000 acres will be classified with a view to its future utilization agriculturally or forestally—in the light of general and particular local conditions, and then to the formulation of a comprehensive plan for the administration or disposition of the land. The possibilities of utilization

### LUMBER MOVEMENT FOR THIRTY-SIX WEEKS, AND FOR THE WEEK ENDING SEPTEMBER 8.

	Production		Shipments		Orders	
	1923	1922	1923	1922	1923	1922
Southern Pine Association:						
Total .....	2,786,045,687	2,648,998,003	2,848,561,653	2,624,924,651	2,673,999,421	2,790,564,569
Week (131 mills) .....	74,372,103	73,863,596	61,612,145	58,399,462	65,853,945	51,267,018
West Coast Lumbermen's Assn:						
Total .....	3,567,325,529	2,917,834,351	3,781,749,274	2,847,265,392	3,610,934,022	2,890,795,887
Week (129 mills) .....	101,086,313	84,776,693	87,547,275	75,843,806	97,137,609	76,567,169
Western Pine Mfrs. Association:						
Total .....	1,010,399,000	785,018,000	895,794,000	884,500,000	823,925,000	910,225,000
Week (31 mills) .....	26,871,000	17,883,000	15,700,000	10,134,000	13,625,000	9,250,000
Calif. White & Sugar Pine Mfrs.:						
Total .....	*479,221,000	*238,197,000	*338,907,000	*221,976,000	*315,352,000	*204,801,000
Week (8 mills) .....	13,648,000	10,177,000	7,674,000	6,406,000	5,444,000	2,253,000
Calif. Redwood Association:						
Total .....	322,990,000	272,453,000	326,354,000	250,708,000	315,886,000	261,614,000
Week (14 mills) .....	9,281,000	9,488,000	9,833,000	9,881,000	4,856,000	7,348,000
North Carolina Pine Association:						
Total .....	316,807,575	296,397,235	328,207,463	287,242,414	260,693,742	293,377,397
Week (46 mills) .....	8,629,154	8,485,912	6,927,213	9,021,208	6,324,601	9,740,910
Northern Hemlock & Hardwood:						
(Softwood) Total .....	93,665,000	73,608,000	93,042,000	99,617,000	81,806,000	94,499,000
Week (18 mills) .....	1,862,000	1,561,000	1,944,000	1,469,000	1,487,000	1,865,000
Northern Pine Mfrs. Association:						
Total .....	388,783,610	313,431,675	*295,742,816	280,394,706	260,567,900	273,801,000
Week (10 mills) .....	12,710,310	7,033,944	7,870,116	7,557,982	7,606,000	11,567,000
General Total for 36 Weeks:						
(Softwood) .....	8,965,237,401	7,545,937,264	8,908,358,206	7,496,628,163	8,343,164,085	7,719,677,853
Northern Hemlock & Hardwood:						
(Hardwood) 36 weeks .....	104,129,000	.....	108,032,000	.....	98,528,000	.....
General Total for Week .....	249,583,880	213,269,145	201,055,749	178,712,458	204,694,155	169,858,000

\* Sum of unrevised weekly totals represents about 40% total association production.



include forest management for the perpetual growing of timber, agriculture, and a combination of agriculture, pasture and timber growing.

The survey will also take into account a comprehensive study of general conditions in the South which it is expected will be of great benefit to the entire Southern region in connection with the problem of cut-over lands of that section, which is already pressing and will become acute when the virgin timber has been removed.

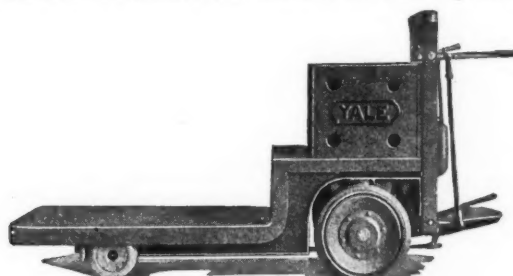
There are 82,000,000 acres of cut-over land in the South, exclusive of farm woodlots, of which 35,000,000 acres are not restocking, and only a small portion of the remainder is reproducing timber correspondingly to its capacity.

The Long-Bell Lumber Company in recent years has established large operations in California and Washington, but the undertaking of the Southern survey indicates a prospect of forty or fifty years and the possible permanent maintenance of lumbering operations in the South through reforestation.

## MECHANICAL

### Two New Trucks for Industrial Plants.

Two of a series of five industrial trucks designed and constructed to meet conditions around different manufacturing plants are shown in the accompanying pictures. One is a narrow low platform truck for general use; the other is a three-wheeled tractor truck with flat platform and which can pass through a three-foot doorway. These trucks are named "Yale," being built by the Yale & Towne Manufacturing Co., of Stamford, Conn. The first (K-23), is for use



NARROW LOW PLATFORM TRUCK

in plants and shops where loads of miscellaneous character have to be moved economically and the low platform of the truck reduces the lifting movement to a minimum, making it easy to pile heavy loads on it either by hand or by use of an auxiliary crane. It is stated that this truck proves ideal where road surfaces are in an average good condition, but if traffic is sufficiently heavy the laying of concrete runways will pay for themselves in a short time. Control of the truck is simple, positive and direct and the sub-assembly is interchangeable with other trucks of this series excepting the other truck shown here, the K-24 three-wheel tractor truck. The rated capacity of this truck is 4000 pounds. It is slightly over 9 feet long and just 38 inches wide. The platform space is 5 feet long and 3 feet 2 inches wide. Electricity is the motive power and is supplied by battery. Front wheels are 20 inches in diameter by 3 1-2 inches wide; rear wheels are 10 1-2 by 5 inches. Tires are solid rubber. On level concrete with full load the truck can run 6 1-4 miles per hour and on 10 per cent grade 2 miles per hour.

The other truck illustrated meets requirements of an average three-wheeled tractor and it is said to be particularly efficient as a small load carrying truck for service in the most congested spaces. The platform space is 15 1-2 square feet, yet the machine can go through a doorway only three feet wide or a seven foot elevator. The low

center of gravity of the truck makes for safety of operation and, it is remarked: "The common occurrences of 'bucking' or overturning against stalling loads, or tipping over sidewise while rounding a corner are eliminated." As in



THREE WHEEL TRACTOR TRUCK

the case of the other truck the control is simple, positive and direct, besides being both durable and efficient. The normal drawbar pull of this tractor is 300 pounds and the maximum 1800 pounds. The machine is slightly less than 7 feet long and is 35 inches wide over all.

### August Breaks July Record Cement Production.

All records for the production and shipment of Portland cement were broken in August, according to the Geological Survey. Production during August was 12,967,000 barrels, an increase of 350,000 barrels over July, the best previous record, and 1,300,000 over August last year. Production for eight months ending August 31 was nearly 88,000,000 barrels or more than was produced in any one of the entire years 1915, 1918 or 1919.

Shipments from the mills during August were only slightly under 15,000,000, or more than 600,000 barrels greater than in any previous month. Shipments for the first eight months of the year were nearly 91,000,000 barrels or more than 19 per cent greater than ever before.

Present conditions, reports the Portland Cement Association, indicate a substantial fall demand for cement so returns for the full year should be far beyond any previous experience. Building permits issued for August show a substantial increase over last year. There is a very heavy volume of building now under construction and prospects for winter construction are considered good. Many highway officials have expressed a determination to complete this year's road building programs so the amount of cement consumed in concrete pavements will undoubtedly be greater than in any past year.

### Report on Southern Pine.

The Southern Pine Association for the week ended September 7 reports as follows on 131 mills:

	Cars.	Feet.
Orders on hand beginning of week.....	10,190	216,119,710
Orders received during week.....	3,105	65,853,945
Total .....	13,295	281,973,655
Shipments during week.....	2,905	61,612,145
Orders on hand end of week.....	10,390	220,361,510

Production for the week was 74,372,103 feet. Shipments were 12,759,958 feet below production or 17.16 per cent. Orders were 8,518,158 feet below production or 11.45 per cent. Orders were 6.88 per cent or 4,241,800 feet above shipments. The week was 7,543,683 feet or 9.21 per cent below normal production, and orders were 19.61 per cent or 16,061,841 feet below normal production. The increase in orders on hand amounted to 4,241,800 feet or 1.96 per cent.

# Construction Department

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

### Bridges, Culverts and Viaducts

Ala., Eufaula—States of Alabama and Georgia will erect steel bridge across Chatahoochee River at Eufaula; three spans; replace wooden, covered bridge; L. G. Smith, Bridge Engr., State Highway Dept., Montgomery, Ala., will receive bids soon.

Ala., Ozark—State Highway Comm., Montgomery, Ala., authorized construction of bridge over Choctawatchee River, on Bee Line Highway, Dale County, between Ozark and Newton.

Ark., Marked Tree—Poinsett County, Drainage Dist. No. 7 will receive bids until Sept. 21 for reinforced concrete culvert, 3 mi. north of Marked Tree; 900 cu. yds. concrete; 1600 sq. yds. precast block revetment; 44 tons reinforcing steel; 4 built-up radial head gates; plans, etc., on file, and from Pride & Fairley, Dist. Engrs., Blytheville, Ark., and Elliott & Harman Engineering Co., Const. Engrs., Memphis, Tenn.

Fla., Clearwater—Pinellas County Comms. will receive bids until Oct. 16 for 8x4 ft. concrete box culvert, concrete slab and combination concrete curb and gutter; 1500 lin. ft. cross-tied timber bulkhead; plans, etc., from C. E. Bursleson, County Engr.

Fla., Daytona—Volusia County will receive bids until Sept. 22 for 60-ft. opening steel draw span at draw site in Central Bridge; cost \$15,000; C. M. Rogers, Engr. (Latest noted bids until Sept. 6.)

Fla., Key West—Details under Road and Street Construction.

Fla., Miami Beach Sta., Miami—Carl G. Fisher plans building 2 bridges on estate, as follows: West 47th St. bridge, crossing Biscayne waterway; Pine Tree Drive bridge, crossing Flamingo waterway near Montemare school; W. E. Brown, Ch. Engr., for Carl G. Fisher Co.

Ky., Louisville—City, Houston Quinn, Mayor, and Chamber of Commerce have tentative plans for \$5,000,000 Watterson Memorial Bridge, across Ohio River, probable length 1¼ mi. with 40-ft. carriage-way; Fay, Spofford & Thorndike, Engrs., 200 Devonshire St., Boston, Mass.

La., Baton Rouge—East Baton Rouge Parish plans building Dyer Bridge, between 3rd Ward and 10th Ward; estimated cost \$18,000; Police Jury to furnish \$6000.

La., New Orleans—Details under Road and Street Construction.

La., New Orleans—City plans building \$100,000 cantilever bridge over New Basin canal at Carrollton Ave., to replace present bridge. Address Commr. Black.

Miss., Jackson—Hinds County, Board of Suprvs., plans building bridges and improving roads; will vote Oct. 1 on \$260,000 bonds.

Miss., Port Gibson—Claiborne County, Board of Suprvs., let contract to Joe Baker to repair north end of Carlisle Bridge.

Miss., Quitman—Clarke County will receive bids until Oct. 1 to furnish material and build steel bridge over Chickasawhay River, west of Stonewall, Miss.; W. B. Raley, Clk., Board of Suprvs.

Miss., Saucier—Harrison County, Board of Suprvs., Gulfport, Miss., will receive bids until Oct. 4 to furnish material and construct standard steel span bridge across Saucier Creek, on Saucier-Biloxi road, 4 mi. southeast of Saucier; plans, etc., from Eustis McManus, Clk., Gulfport.

Mo., Paris—Monroe County plans building bridge across branch on Cathedral St.; cost \$6000. Address County Comms.

Mo., Springfield—Details under Sewer Construction.

Mo., Springfield—City contemplates building 2 viaducts on Grant and Benton Aves. Address The Mayor.

Okla., Wagoner—Wagoner County let contracts to build 2 bridges, over Pea Creek, and southwest of Carl Bridge, across Verdigris, also plans completing 1 mi. hard surfaced road between Porter and Coweta.

S. C., Laurens—State Highway Comm., Columbia, S. C., will let contract to build bridge across Saluda River at Puckett's Ferry; Greenwood and Laurens Counties to pay equal amount of expenses.

Tenn., Bristol—City plans building Ashe St. bridge; Chas. Davis, City Engr.

Tenn., Columbia—Maury County plans building concrete bridge over Leiper's Creek at Fly's store; Burke Wilkes, County Highway Supt.

Tenn., Santa Fe—Maury County Comms. Court, Columbia, Tenn., plans improving bridge over Duck River on Santa Fe Pike, near Godwin Station.

Tex., Brady—McCulloch County plans constructing bridges and culverts on State Highway No. 10, from Brady north to Brown County line; State Highway Comm., Austin, granted \$15,136.90 state aid; E. A. Burrows, County Engr.; J. D. Adkins, County Judge.

Tex., Cameron—Details under Road and Street Construction.

Tex., Centerville—Leon County plans building 3 timber pile trestle bridges with earth approaches over Boggy, Beaver and Lower Keechi Creeks, on State Highway No. 32; estimated cost \$35,000; F. W. Gaines, County Engr.; W. D. Lacey, County Judge. (Previously noted.)

Tex., Kingsland—C. F. Wall, Commr. of Precinct No. 4, will build bridge across Mill Creek, 2 mi. east of Kingsland, on Marble Falls, Burnett, Fairland and Kingsland road.

Tex., Kountze—Details under Road and Street Construction.

Tex., Orange—Frank P. McElwraith, Corsicana, Tex., sub-let contract to Contr. Hable to build concrete bridges on upper Orange and Beaumont road, between Vidor and Neches.

### Canning and Packing Plants

Fla., New Smyrna—Oak Hill Citrus Growers Assn. will install \$13,000 pre-cooling plant at Oak Hill packing house.

Tex., San Benito—Brown & White, has packing plant with daily capacity of car load of citrus fruit; will install washing, grading, sizing, drying and paraffining grapefruit machinery.

### Clayworking Plants

Tex., Stamford—Fraser Brick Co., J. H. Payne, V.-P., 811 Central Bank Bldg., Dallas, has leased property of West Texas Tile & Brick Co. and will operate; will make minor changes now; in course of next year will probably add a number of additional kilns. (Supersedes Previous Item.)

### Coal Mines and Coke Ovens

Ala., Tuscaloosa—Tidewater Coal Co., incorporated by J. W. Lewis and F. W. Hopkins, both Birmingham, Ala.; have acquired about 1000 acres of the Tidewater coal property, and 200 acres of adjoining coal lands; will improve and operate.

Ky., Louisville—Pacific Coal Co., capital \$20,000, incorporated by C. D. Glass, Walton S. Lapp and J. E. Miller.

Ky., Mogg—Drakesboro Coal Co., capital \$40,000, incorporated by Claude Nichols, Mogg; Edgar Nichols, Central City, Ky., and others.

Md., Jennings—Morgart Coal Mining Co., William A. Morgart, Pres., reported, to install electric power and mechanical equipment for new mines and electrification of existing mines.

Mo., Kansas City—Lingo Coal Co., capital \$35,000, incorporated by H. C. Kellogg, M. E. Morris and others.

Va., Haysi—Craneys Island Coal Corp., capital \$50,000, incorporated with G. B. Long, Praise, Ky., Pres.; C. A. Price, Praise, Ky., Sec.

Va., Salem—Crown Coal Co., M. J. Anderson, Pres., reported, plans installing electric power and mechanical equipment, including hoisting, conveying and other machinery.

W. Va., Clarksburg—Wolf Summit Coal Co., 907 Goff Building will increase capital stock from \$750,000 to \$1,500,000.

W. Va., Elkins—Roaring Creek Coal Co., capital \$50,000, incorporated by H. B. Martin, Phil Williams, C. W. Abrogast.

W. Va., Huntington—Harry P. Jones Coal Co., incorporated by James R. Jones, Harry P. Jones, Jr., W. W. Ashley.

W. Va., Huntington—Minnetti Elkhorn Coal Co., incorporated by Samuel G. Minnetti, H. P. Jones and others.

W. Va., Morgantown—Erbacoe Gas Coal Co., capital \$25,000, incorporated by A. Carl Slagle, P. C. Kiernan and others.

**Cotton Compresses and Gins**

Miss., Isola—Farmers Gin Co., capital \$16,000, incorporated by W. H. Gillon, and M. F. Eddleman of Isola and E. R. King of Itta Bena, Miss.

N. C., Purvis—Bracy Gin Co., capital \$10,000, incorporated by C. T. Pate of Purvis, Henry A. McKinnon of Maxton, N. C.

Okla., Muskogee—Traylor Cotton Co., incorporated by R. H. and C. L. Traylor, both Muskogee; T. Traylor, Bailey, Tex.

Okla., Stillwater—B. A. Ray Gin Co., capital \$25,000, incorporated by B. A. Ray, J. T. Gray and others.

Tenn., Ashland City—Dark Tobacco Growers' Co-Operative Assn. will erect compressing plant.

Tex., Anson—Rosamond Gin Co., incorporated by R. K. Wooten, F. J. Phillips, J. W. Simmons, Jr.

Tex., Big Springs—Williams Gin Co., capital \$10,000, incorporated by J. W. and Sarah M. Williams.

**Cottonseed-Oil Mills**

S. C., Ninety Six—Ninety Six Manufacturing Co., lately noted incorporated with \$100,000 capital. H. P. Galphin, Pres., has acquired and will operate Ninety Six Oil Mill.

**Electric Light and Power Plants**

Ala., Albertville—See Ala., Boaz.

Ala., Boaz—Alabama Power Co., Montgomery, Ala., plans purchasing electric light plants in Boaz and Albertville; will take over franchises and extend hydro-electric systems to both towns.

Fla., Miami—Details under Land Developments.

Md., Laurel—Public Service Comm. authorized Annapolis & Chesapeake Bay Power Co., Annapolis, Md., to acquire municipal electric lighting and power plant.

Miss., Crystal Springs—Board of Aldermen let contract to Fairbanks-Morse Co., 900 S. Wabash Ave., Chicago, Ill., to install 2 oil engines at electric light and water plant, cost \$20,000.

Miss., Hazlehurst—City considering installation of new power plant for water and lights. Address The Mayor.

Mo., Holliday—City will construct transmission line to municipal light plant; will vote on bonds. Address The Mayor.

Mo., Mountain Grove—City defeated \$35,000 bond issue for electric light plant; will call new election. Address The Mayor.

Mo., St. Louis—Details under Land Developments.

N. C., Andrews—Town will issue \$350,000 bonds to build and enlarge electric light and power system; Ludlow Engineers, Inc., Engrs., Winston-Salem, N. C. (Previously noted.)

Tex., Corsicana—Details under Land Developments.

Tex., New Branfels—Details under Textile Mills.

Va., Fredericksburg—Spotsylvania Power Co. acquired property of Rappahannock Electric Light & Power Co., including ownership of all water power of Rappahannock River at and above Fredericksburg; will improve.

W. Va., Clarksburg—Details under Land Developments.

W. Va., Logan—Interstate Power Co., acquired site for substation for power lines extending from Logan to Charleston.

**Flour, Feed and Meal Mills**

Ark., Paragould—P. E. House has building at West Junction and South Second St. and will remodel for flour mill.

Ark., Wilson—Wilson Milling Co., will increase capacity of plant, will erect reinforced concrete building; will install 300 h. p. oil engine and generator at cost of \$25,000.

Tex., Mineola—Mineola Grain Co., capital \$10,000, incorporated by J. F. Steed, W. G. Russell and others.

W. Va., Ronceverte—Ronceverte Milling Corp., lately noted incorporated with \$50,000 capital by R. K. Ford, W. H. Van Pelt, both Ronceverte, C. F. Coffman, Harrisonburg, Va.; has taken over flour milling plant of Limestone Milling Co., will equip with new machinery of increased capacity; equipment purchased from The Wolf Co., Chambersburg, Pa.

**Foundry and Machine Plants**

Md., Baltimore—Chicago Nipple Co., M. Beddingfield, Mgr., 4109 First Ave. has acquired building adjoining its plant, will remodel for stock room; contemplates the manufacture of brass nipples in connection with its present output of iron pipe nipples, pipe bands, etc.; will install additional machinery.

Mo., St. Louis—Heine Boiler Co., 5319 Marcus St. let contract to Fruin-Colnon Construction Co., Merch-Laclede Bldg., to erect 1-story, 80x139-ft. machine shop, with composition roof; Lichter and Jens, Archts., Chemical Bldg.

Mo., St. Louis—City Foundry Co., capital \$40,000, incorporated by F. W. Priep, H. S. Welsch and others.

S. C., Union—J. M. Morse will rebuild Union Iron Works plant, burned at loss of \$17,500.

W. Va., Keystone—French Sand Dryer Co., organized with Jacob Spector, Pres.; C. S. French, Mgr.; contemplates building plant of ordinary construction, cost \$15,000; install dressing machines, lathes, etc., for the manufacture of sand dryers. Lately noted. (See Machinery Wanted—Sand Dryers.)

**Gas and Oil Enterprises**

Ala., Birmingham—Industrial Gas Corp., chartered by Brewer Dixon, E. M. Preston and others.

Ky., Brownsville—Green River Oil & Mineral Co., capital \$400,000, incorporated by J. A. Logan, George McCombs and others.

Ky., Somerset—Combest Oil Corp., capital \$90,000, incorporated by Jackson Morris, Somerset; Lee Combest, Liberty, Ky. and others.

La., Minden—Minden Gas Co., capital \$125,000, incorporated with Robert D. Webb, Pres.; Jasper Goodwill, Sec.; will pipe gas from Webster gas field to Minden.

La., Monroe—Acme Carbon Mfg. Corp., 814 Ouachita National Bank Bldg., lately noted incorporated with \$250,000 capital, organized with L. N. Larche, Pres.-Mgr.; W. E. Allen, Sec.; will erect 30 steel burning houses, 12x120-ft. each; date of opening bids not decided upon; will install small amount of gas engine driven machinery; daily output 5000 lbs. of carbon black. (See Machinery Wanted—Rails (Steel); Carbon Black Plants; Pipe (Gas).)

La., Opelousas—Grand Coteau Dome Oil Co., New Orleans, La., will develop 11,000 acres oil lands.

La., Shreveport—Shreveport Oil Co., capital \$20,000, incorporated with Anthony Paciera, Pres.; Samuel Paciera, Sec.

Md., Curtis Bay P. O., Baltimore—American Oil Co. will erect steel tank on Hawkins Point road.

Miss., Lexington—Lexington Oil Mill Co., capital \$25,000, incorporated by W. B. Potts and J. O. Ainsworth of Koschusko, and S. L. Burwell of Lexington.

Mo., St. Louis—Details under Land Developments.

Okla., Norman—City will vote Sept. 25 on granting natural gas franchise to Oklahoma Gas & Electric Co.

Okla., Tulsa—Little Frank Oil Co., capital \$200,000, incorporated by John B. Means, Ethel Wilkins and others.

Okla., Tulsa—F. and N. Oil Co., capital \$400,000, incorporated by John B. Means, E. L. Newblock and others.

Okla., Tulsa—Spartan Oil Co., capital \$10,000.

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MANUFACTURERS RECORD

BALTIMORE, MD.



000, incorporated by R. F. Dodd, S. W. Ruebel, S. H. Leavitt.

Tex., Corsicana—McMahon Oil Corp., capital \$100,000, chartered by James D. McMahon, L. F. Wortham and John Eagle.

Tex., Corsicana—Bass-Galloway Co., was granted permission to construct pipe line from well No. 1 to Navarro county oil field.

Tex., Dallas—The Masters Co., capital \$20,000, incorporated by C. D. Neff, Frank Masters and others.

Tex., Eastland—Knox-Lewis Oil Co., capital \$50,000, incorporated by John M. Knox, J. F. Lewis and others.

Tex., Kingsville—Unkel Oil & Development Co., incorporated by L. P. Unkel, A. L. East and others.

Tex., Lone Oak—Point Oil Co., capital \$50,000, incorporated by J. N. Southard and J. M. Barnes.

Tex., Texas City—Vacuum Oil Co., Wm. Hastings, Supt., will build 2 additional storage tanks of 80,000 bbl. capacity.

Va., Richmond—Details under Water Works.

W. Va., Clarksburg—Details under Land Developments.

W. Va., Moundsville—National Petroleum Corp., capital \$50,000, incorporated by F. L. Hadley, A. R. Acker, A. C. Moser.

W. Va., St. Marys—Sterling Oil Products Co., capital \$50,000, incorporated by J. T. Flynn, Sistersville, W. Va.; L. Messer and T. S. Tarbox both Oil City, Pa.

### Ice and Cold-Storage Plants

Ala., Attalla—Joe McCleskey, Henry Lester of Gadsden, Ala., and others, will improve recently acquired plant, increase capacity by 5 tons, will install electric engine, etc.

Ala., Gadsden—Gadsden Ice & Fuel Co., capital \$150,000, incorporated with Joe R. McCleskey, Pres.; Otto Agricola, Sec.; organized to take over and operate the ice factories of Gadsden and Attalla.

Fla., Rockledge—Cornell-Matthews Co., 10 Oak St., Orlando, Fla., has contract to install refrigerating plant and system for Rockledge Hotel Co.

Fla., St. Petersburg—Cornell-Matthews Co., 10 Oak St., Orlando, Fla., has contract to install ice plant, cold storage, refrigerating and water cleaning system for Mason Hotel Co.

Md., Baltimore—American Ice Co., Wm. H. Oler, local Mgr. plans the erection of a 7000 ton capacity storage warehouse to operate in conjunction with the recently completed ice manufacturing plant on Eden St.

Miss., Biloxi—Glacier Refrigerating Corp., increased capital from \$12,000 to \$25,000.

S. C., Columbia—Palmetto Ice & Fuel Co., will expend about \$7000 on renovating plant; J. B. Urquhart, Archt.; contract let.

Tex., Houston—Arctic Ice Co., capital \$75,000, incorporated by F. A. Willard, J. S. Marshall and others.

Tex., Snyder—Snyder Utilities Co., will erect cold storage plant, construction by owners, portion of equipment to be moved from another location, will purchase brine and ammonia coils, cork board, etc. (Lately noted.)

Tex., Woodville—Woodville Ice & Storage Co., incorporated by Ezra Eaves, John P. Toley and others.

### Land Development

Ala., Birmingham—Realty Holding Co., incorporated with Allison S. Loventhal, Pres.; H. L. Mosely, Sec.

Fla., Bradentown—Rood & Underhill will

develop 10 acre tract on W. Manatee Ave. for subdivision; will construct streets and other improvements.

Fla., Homestead—Redlands Grove-Homes Co., Northern office, 25 Eagle St., Albany, N. Y., W. H. Price, Pres., Miami; Frank A. Stark, V.-P., Goffstown, N. H.; W. K. Walton, Gen. Mgr., Redlands, Fla.; lately noted incorporated with \$350,000 capital; has acquired 160 acres of land in Redlands and will develop for homesite; will divide into four 40-acre lots by two intersecting roads, on outside of each 40 acres will be cut 50 ft. lots, 150 ft. in depth; construct large community building on circular plot of ground 100 ft. in diam., surrounded by 100 ft. roadway and erect 8 stores; will install water system; electric light lines; sewer system; expend about \$300,000; American Industrial Co., Archt., 25 Eagle St., Albany, N. Y. (See Machinery Wanted—Water System; Electric Lights; Septic Tanks.

Fla., Miami—George E. Merrick acquired 180 acres of land near Coral Gables and will develop for subdivision; will build 140-ft. boulevard, pave streets, etc.

Fla., Miami—Frank E. Ballard of Bridgeport, Conn. and Marcellus R. Bennett, of Hartford, Conn.; acquired tract of land corner of Coral Way and Red Rd. and will develop for homesite; will pave streets and roads and sidewalks; install water, sewer, electric lighting systems, etc.

Fla., Pensacola—Fred W. Marsh and associates interested in development of 18 hole golf course; will erect clubhouse.

Ga., Albany—City will extend park facilities and athletic grounds. Address The Mayor.

Ky., Louisville—West End Investment Co., capital \$25,000, incorporated by James J. Carroll, J. W. Bowman and others.

Ky., Morganfield—Eagle Creek Land Co., capital \$30,000, incorporated by W. I. Harris, A. G. Mason and Malcolm Taylor.

La., Lake Charles—Powell Lumber Co. will develop 80 acres of land.

Md., Baltimore—Gardens Unit Number Four, Inc., Keyser Building, capital \$40,000, incorporated by Brodnax Cameron, Helen Gleeson and J. Woodall Green.

Md., Baltimore—Gardens Unit Number Five, Inc., Keyser Building, capital \$40,000, incorporated by Brodnax Cameron, Helen Gleeson and J. Woodall Green.

Md., Baltimore—Wolman Construction Co., 3931 Boorman Ave., incorporated by Abraham Wolman, Morris Zubatkin and others.

Md., Frederick—Blue Ridge Fruit Growers Co., capital \$10,000, incorporated by Thomas B. Hayward, Holmes D. Baker, R. Rush Lewis.

Md., Hagerstown—Valley Realty Co., 203 First National Bank Bldg., capital \$25,000, incorporated by George B. Brooks, Robert H. McCauley and others.

Miss., Clarksdale—Burke Planting Co., organized by W. G. Mims, of Greenwood, Miss., J. S. Hill and R. S. Tilshman of Hardy, Miss. and others, have acquired 2000 acres of land and will develop.

Mo., Kansas City—H. O. Peck Development Co., capital \$15,000, incorporated by H. O. Peck, C. F. Curry and others.

Mo., Kansas City—Harry Taylor & Co., capital \$25,000, incorporated by Hy. Taylor, F. J. Walfson and others.

Mo., St. Louis—Joseph H. White has acquired 10 acres of land on West Park Ave. and will develop for homesite; will install sewer, water, gas, roads and streets etc. erect number of dwellings.

Mo., St. Louis—Federal-Arendes Co. is developing Holly Hills for subdivision; will in-

stall sewer, water, electric lights, gas, pave streets and roads, etc.

Mo., St. Louis—Security Land & Investment Co., capital \$10,000, incorporated by H. C. Gottfried, B. W. Maxwell and others.

Mo., Springfield—Park Board is considering plans for complete system of boulevard and parks; establishing bathing beaches and wading pools, etc.

N. C., Asheville—Lynnhurst Cemetery Co., capital \$100,000, incorporated by P. D. Moore, Charles P. Byrd and others.

N. C., Charlotte—H. G. Sherrill Co. will develop 55 acres of land situated between Dilworth and Myers Park for subdivision; will construct paved streets, install other improvements; erect total of 175 dwellings.

N. C., Charlotte—East Side Realty Co., capital \$100,000, incorporated by W. S. Lee, E. C. Marshall and others.

N. C., Charlotte—City, Mayor Walker, is having plans prepared by E. S. Draper, Landscape Archt. and City Planner, 11 5th St., Charlotte, for improvements to Elmwood cemetery, park and playgrounds.

N. C., Winston-Salem—Washington Mills Co., incorporated by F. H. Fries, A. H. Bahnson and others.

N. C., Winston-Salem—Hanging Rock Development Corp., capital \$500,000, incorporated by D. D. Smith, T. A. M. Stevenson, both Winston-Salem; H. B. Varner, Lexington, N. C. (D. D. Smith lately noted interested in development of 9300 acres at Hanging Rock for subdivision.)

S. C., Spartanburg—W. N. Duncan will develop subdivision, install water, build streets and other facilities.

Tex., Corsicana—Charles G. Jester let the following contracts for improvements to subdivision in Jester Place and Oak Lawn Addition; to J. H. Wooley for laying approximately 7780 ft. of sewer pipe 6-in. in diam.; to Simplex Adjustment Co., for pumping station; to Corsicana Power & Light Co. for installation of complete lighting system.

Tex., Houston—Broadmoor, Inc., John H. Crooker, Pres., will develop 195 acres of land for subdivision.

Tex., Plainview—Solon Clements, E. M. Carter and others interested in organizing company with \$20,000 capital to develop 120 acres for farming.

Va., Bristol—Piper Land Co., capital \$25,000, incorporated with W. E. Martin, Pres.; H. M. Piper, Sec.

Va., Norfolk—Simpson Investment Corp., capital \$15,000, incorporated with W. W. Simpson, Jr., Pres.; Samuel Tuckschler, Sec.

Va., Norfolk—Jones, Capps and Hudgins, capital \$10,000, incorporated with Richard A. Jones, Pres.; Jefferson A. Hudgins, Sec.

W. Va., Clarksburg—C. F. Cunningham Co., Goff Bldg., lately noted incorporated with \$25,000 capital, organized with C. F. Cunningham, Pres.; will develop 152 acres near Clarksburg for subdivision for Peoples Home Corp., will lay out and grade streets, build lake, install gas and electric lighting system, water works, sewer system, etc.; will expend about \$35,000 in improvements.

W. Va., Morgantown—Publishers Building Co., capital \$175,000, incorporated by W. R. Ludwig, Charles E. Hodges and others.

W. Va., Wheeling—C. E. Lang Co., incorporated by C. E. Lang, H. K. Baker and others.

### Lumber Enterprises

Ala., Birmingham—Birmingham Lumber Co., capital \$20,000, incorporated by M. B. Thweatt, G. L. Vaughn and others.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ark., Pine Bluff—Central Lumber Co., A. Farmin, Mgr. has taken over and will improve and operate established plant.

Ky., Owensboro—D. C. Stimson Lumber Co., capital \$300,000, incorporated by D. C. Stimson and P. M. Stimson of Owensboro and M. A. Stimson of Campbellsville.

Ky., Tompkinsville—A. S. Palmore and John Ernest, Glasgow, Ky., have acquired planing mill of the Spivey Manufacturing Co., of Spivey, Tenn., will locate at Tompkinsville.

La., Morehouse Parish—Crossett Lumber Co., New Orleans, La. let contract for the reforestation of 58,000 acres of cut-over land to Dudley Berwick, Commr. of the Dept. of Conservation.

Md., Baltimore—Lafayette Mill & Lumber Co. 2100 W. Lafayette Ave. will erect two 2 story frame buildings corner Mosher and Brice Sts., cost \$20,000. (Previously noted burned.)

Md., Fairfield—Weyerhaeuser Timber Co., James E. Long, Mgr., Lexington Bldg., Baltimore, will erect 1 story, 78x72x60-ft. frame building corner 1st Ave. and Chelsea St.

Miss., Greene County—C. H. Cowan, advises The Manufacturers Record as follows regarding property recently purchased: L. A. Cowan Lumber Co. has acquired plant of the Robinson Land Lumber Co. at Bothwell, Miss., consisting of band saw mill with annual capacity of about 20,000,000 ft., dry kilns, planer, 8 mi. logging road with all logging equipment and 10,000 acres long leaf timber; the Cowan Co. still own and operate 60,000 daily capacity mill at Reba, Miss., also 50,000 daily capacity mill at Wally Miss.; all mills located on the Blodgett Branch of the G. M. & N. R. R. Co., in Greene County. (Lately noted.)

Miss., Homewood—Homewood Lumber Co., capital \$20,000, incorporated by A. Tindall of Forest, Miss., and Oscar Newton, Jr., Jackson, Miss.

N. C., Marion—Linville Lumber Co., capital \$100,000, incorporated by E. A. Beaman, C. S. Spencer and others.

Tenn., Greene County—Maples Lumber Co., Knoxville, Tenn., will develop between 8,000,000 and 10,000,000 ft. of hardwood, oak and poplar timber; has installed one mill and another is being moved to the tract; will establish camps, operate store, etc.

W. Va., Huntington—Ohio Valley Lumber & Supply Co., 4th Ave. and 24th Sts. (lately noted incorporated, capital \$50,000) organized with H. H. Harwood, Pres., J. P. Beasley, Sec.-Treas., both Beckley, W. Va.; C. L. Rice, Mgr., Huntington, W. Va.; will erect lumber sheds and buildings of various sizes, part fireproof, part wood, estimated cost \$30,000; construction by owners; woodworking machinery all purchased.

### Mining

Mo., Kerrigan—Granite Bend Mining & Mercantile Co., capital \$100,000, incorporated by J. B. McCutchan, R. T. Myers and others.

Mo., St. Louis—American Gem Mining Syndicate, capital \$50,000, incorporated with L. M. Rumsey, Jr., V.-P.; Firman D. Fusz, Sec.

N. C., Willits—Rhodolite Co., of New York, organized with Warren R. Palmer, Pres., 149 Broadway, New York; Donald Woodward, V.-P.; Steven R. Fordham, Sec.-Treas.; has leased the abrasive mines of the Carolina Abrasives Co., with 600,000,000 tons of deposits of natural abrasives in Jackson and Clay Counties; R. S. Perry, Directing Engr. of the Rhodolite Co. and U. S. James, Newark, N. J., Directing Engr. of the Carolina Abrasives Co., will have charge of development work; machinery is being assembled in New York; to begin mining at early date.

Va., Cherrydale—Fairfax Pink Granite Co., capital \$50,000, incorporated with John T. Mallon, Pres.; John G. Ddley, Sec.

### Miscellaneous Construction

Fla., Clearwater—Bulkhead—Details under Bridges, Culverts, Viaducts.

La., Atchafalaya—Levee—Pres. of the Atchafalaya Levee Board invites bids for the construction of approximately 6 mi. of levee on east bank of the Atchafalaya river, a continuation of the present levee to the Alabama Bayou.

La., New Orleans—Levees—Board of State Engineers opened bids for the construction of two new levees on the Red River and reconstructing levee on the Atchafalaya as follows: (a) Chalk Bevel Levee, left bank of Red river, containing 85,000 cu. yds. earthwork (b) Van Hoos levee, left bank of Red river, Bossier Parish, 13,000 cu. yds. earthwork and (c) Bayou Rouge to Gordon Place levee, St. Landry Parish, right bank of Atchafalaya river containing 135,000 cu. yds. earthwork; J. M. Montgomery, Shreveport, La., lowest bidder.

Tex., Austin—Incinerator—Details under Water Works

Tex., Corpus Christi—Breakwater—City and the Navigation Board of Nueces County will receive bids until Sept. 15 to construct breakwater in the deep water channel and dredging for the new turning basin.

Tex., Corsicana—Natatorium—F. V. Gowans, of Camden, Ark., contemplates establishing salt water natatorium on S. 12th St. in what is known as the West Pool property, 60x285 ft. in size; bottom and sides to be covered with concrete; will erect bath house, 160-ft. in length.

Va., Norfolk—Coal Pier—Virginian Railway Co., H. Fernstrom, Ch. Engr., has let additional contracts for the construction of \$3,000,000 coal pier at Sewalls Point: to Strait Scale Co., of Kansas City, Mo.; General Electric Co., of Schenectady, N. Y., for substation apparatus; now asking bids on power distributing and lighting; complete list of contractors includes Sanford & Brooks Co., Norfolk, Va.; Bethlehem Steel Co., Bethlehem, Pa.; Alliance Machine Co., Alliance, Ohio; Strait Scale Co., Kansas City, Mo.; Atlantic Gulf & Pacific Co., Park Row Bldg., New York; Bituco Manufacturing & Chemical Co., Philadelphia, Pa.; General Electric Co., Baltimore, Md. (Previously noted.)

W. Va., Clarksburg—Lake—Details under Land Developments.

W. Va., Huntington—Incinerator—City let contract to Nye Odorless Creamery Co., of Macon, Ga., to install double unit, large type incinerator plant; daily capacity from 40 to 50 tons; estimated cost \$35,000. (Lately noted.)

### Miscellaneous Enterprises

Ark., Gravette—Robinson Poultry Co., Guy V. Robinson, will erect \$15,000 fireproof and mill construction building; install incubator, feed mixing machinery, light plant and water works, etc.

Ark., Little Rock—Arkansas Bauxite Products Co., G. W. Goodman, Sec., Box 381, (lately noted incorporated) will erect \$35,000 building, ordinary or mill construction; will install \$40,000 machinery for the manufacture of alum. (See Machinery Wanted—Aluminum Sulphate (Alum) Manufacturing Machinery.)

D. C., Washington—Elcor Products Corp., capital \$100,000, incorporated by Lee M. Corrick, J. E. Eldridge, Ernest M. Elkin.

D. C., Washington—Washington Contracting Co., capital \$10,000, incorporated by G. Washington Howard, James A. Purcell and others.

Fla., Daytona—Fifty-Fifty Bottling Co., capital \$10,000, incorporated with S. A. Harris, Pres.; S. H. Savage, Sec.

Fla., Miami—Sunlight Creamery Co., capital \$200,000, incorporated with George A. Howard, Pres.; R. C. Gardiner, Treas.; Ernest Britton, Sec.

Fla., Miami—Polar Water Co., W. K. Thompson, Pres., 1702 N. Miami Ave., let contract to Sandquest & Snow, to erect 60x130-ft. fireproof building; install \$8000 machinery for manufacture of ginger ale and distilled water. (Lately noted incorporated, capital \$20,000.)

Fla., South Jacksonville—Florida Paper Mills Co., subsidiary corporation of Grass Fibre Pulp & Paper Corp., Gilbert D. Leach, Sec.-Treas., Leesburg, Fla., will construct plant (lately noted) under supervision of own engineers, type of building not decided but will probably be of slow-burning, frame, galvanized iron and steel sash; will require about nine months to build plant; have acquired paper machine, consisting of an 84-in. trim Fourdrinier with 26 dryer rolls, giving a maximum capacity of 13 tons daily; will be in market for cylindrical cookers, Hollander type beating engines of about 2000 lbs. capacity, motors of 60 cycle, three phase, 440 volt type, enclosed and necessary shafting, pipe, valves, etc., also 2 water tube boilers of 250 to 300 h. p. (See Machinery Wanted—Paper Making Machinery.)

Fla., Stuart—Florida Food Products, Inc., Box 96, (lately noted incorporated, capital \$500,000) will erect fireproof building, tile or concrete walls, reinforced floors, construction by owners; have portion of equipment; will receive prices on electric equipment, 20-ton refrigerating equipment, syrup evaporators, 5-ton incinerator plant for plant refuse; will manufacture, clarify and refine cane syrup, make jellies, jams, etc., of grapefruit and pineapples. See Machinery Wanted—Electric Power Plant; Ice Plant; Incinerator; Evaporators (Syrup.)

Fla., Tallahassee—Leon County Poultry Assn., William C. Hodges, Pres. contemplates establishing 10,000 egg capacity incubator.

Fla., Tampa—Abana Cigar Co., capital \$40,000, incorporated by S. J. Nesbitt, W. E. Tucker and others.

Ga., Arabi—Arabi Dairy Assn. will establish a cheese factory for Crisp County, capacity from 300 to 500 gals. milk daily; C. B. Culpepper, County Agent.

Ga., Atlanta—A. E. Hill Mfg. Co., will manufacture Hilco automobile reflector, patented by C. M. Weems.

Ga., Thomasville—Grover Edmondson of Savannah, Ga. contemplates establishing weekly newspaper.

Ky., Hickman—Hugh Smith of Union City, Tenn., let contract to Leonard M. Frost of Hickman, to erect soft drink bottling plant on E. Jackson St.; brick and concrete.

Ky., Louisville—College Printing Co., incorporated by W. J. Erdman, Wade Shelton and others.

Ky., Louisville—Adhesive Corp., capital \$35,000, chartered by A. V. Irwin, J. C. Her and others; manufacture glue, etc.

Ky., Paducah—Mat Co., incorporated by W. E. Bassett, T. E. Coleman and others; will manufacture cocoa fibre mats.

Ky., Wallis Creek—M. H. Thompson contemplates establishing laundry plant. (See Machinery Wanted—Laundry Machinery.)

La., New Orleans—Blenville Manufacturing Co. will manufacture portable electric saw patented by Edmond Michel.



Md., Baltimore—Parlett Varnish Co., 3 W. Lafayette Ave., capital \$100,000, incorporated by Ernest W. Parlett, Arthur E. Green and others.

Md., Baltimore—National Painting & Surfacing Co., 207 W. Franklin St., capital \$50,000, incorporated by Raymond S. Williams, John H. Levin and others.

Md., Baltimore—Roanna Development Co., Inc., 1621 Munsey Bldg., incorporated by John P. King, William C. Rogers and others.

Md., Baltimore—Worcester Wire Novelty Co., Inc., 701 Emerson Tower Bldg., capital \$100,000, incorporated by W. W. Worcester, Mark J. Roberts, Wm. H. Cooney.

Md., Baltimore—The Holland Manufacturing Co., northeast corner Central Ave. and Bank Sts., capital \$200,000, incorporated by Franklin Holland, James E. McCarter and Wm. Edwin Bonn.

Md., Baltimore—C. C. Lurssen's Sons Co., Inc., Mount and Cole Sts., capital \$50,000, incorporated by Herman H. Lurssen, John C. Lurssen and William C. Lurssen.

Md., Baltimore—Lithographing, etc.—Green Bank Note Co., 113 E. Lexington St., capital \$50,000, incorporated by Edgar L. Green, Gilbert H. Panitz and others.

Md., Baltimore—Besto-lite Manufacturing Co., 208 E. Preston St., capital \$50,000, incorporated by Albert R. Stuart, Herbert E. Stimpson and others; will manufacture machinery supplies, silver plating, etc.

Md., Baltimore—Maryland Biscuit Co., 508 S. Charles St., reported to erect new plant building acquired property on S. Howard St. near Henrietta St., having 82 ft. frontage.

Miss., Crystal Springs—J. T. Biggs & Son Hardware Co., capital \$40,000, incorporated by J. T. Biggs, Sr., J. T. Biggs, Jr., both Crystal Springs; E. H. Boone, Utica, Miss.

Miss., Jackson—Consolidated Products Co., 4750 Sheridan Rd., Chicago, Ill. will establish a buttermilk condensing plant, will install \$10,000 machinery, all purchased; plant to be operated in connection with the Mississippi Co-operative Creamery, Tombigbee and Commerce Sts., using products that are now classed as wasted.

Miss., Yazoo City—Fontaine and Hutchins, Inc., incorporated by Lamar Fontaine, R. E. Hutchins and others.

Mo., Kansas City—Nulf & Hansen Building Co., capital \$16,000, incorporated by J. H. Nulf, P. K. Hansen and others.

Mo., Kansas City—Federal Van & Storage Co., incorporated with F. J. Lewis, Pres.; A. V. Cresto, V.-P. and Sec.

Mo., Kansas City—Twelfth Street Theatre Amusement Co., capital \$10,000, incorporated by Archie Josephson, J. H. Roth and others.

Mo., Kansas City—National Broom Corn Co., incorporated by Harry Pelton, Allen A. Simondson and others.

Mo., Kansas City—Dean Rubber Co., 13th and Chestnut Sts., will erect plant at Sixteenth and Charlotte Sts., North Kansas City, for manufacturing water bottles, gloves, etc.; 2 stories; reinforced concrete and brick; cost \$40,000.

Mo., Kansas City—Paul Felix Amusement Enterprises, capital \$16,000, incorporated by Paul and Oscar Felix and others.

Mo., Kansas City—Producers Warehouse Co., capital \$150,000, incorporated by R. S. Brennan, R. A. Tillman and others.

Mo., Kansas City—Liberty Garment Co., capital \$53,000, incorporated by Oscar Litwin, Abram Passman and others.

Mo., Kirksville—Kirksville Hotel Co., capital \$200,000, incorporated by M. C. Shryack, C. C. Givens and others.

Mo., St. Louis—F. Medart Mfg. Co., 2nd and Potomac Sts., will erect one-story factory building at 3463 De Kalb St.; 129x260 ft.; composition roof; cost \$86,000; Klipstein & Rathman, Archts., 1501 Chemical Bldg.; Woermann Const. Co., Builder, 1441 Syndicate Trust Bldg.

Mo., St. Louis—Union Undertaking Co., capital \$10,000, incorporated by C. H. Diamond, C. R. Anderson and others.

Mo., St. Louis—Circle A Co., capital \$22,467, incorporated with A. T. Silbey, Pres.; E. D. Soward, Sec.; manufacture ginger ale.

Mo., St. Louis—General Paving Construction Co., incorporated with \$1,000,000 capital; Leahy, Saunders and Barth, Atty., National Bank of Commerce Bldg.

Mo., St. Louis—Viking Manufacturing Co., incorporated; Corporation Trust Co., Agent, 1110 Federal Reserve Bank Bldg.

Mo., St. Louis—Dew Drop Inn, capital \$42,000, incorporated by F. Pollack, H. Lachman and others.

Mo., St. Louis—Missouri Oil Heating Co., capital \$10,000, incorporated by J. L. McCorkick, H. R. Combs and others.

Mo., St. Louis—Herman Behr & Co., capital \$16,000, incorporated with Herman Behr, Pres.; Gustav Heubach, Sec.; will manufacture sand paper.

Mo., St. Louis—Ravenna Mosaic, Inc., capital \$20,000, incorporated by Emma Frel, 3954 S. Grand St., Julius Gewinner, 4264 Virginia Ave.

Mo., St. Louis—Federal Match Sales Corp., chartered with J. H. McHenry, Pres.; F. M. Stern, Sec.; J. C. Cannon, Agent, 1110 Federal Reserve Bank Bldg.; will manufacture matches.

Mo., Sleeper—Davis Construction Co., capital \$20,000, incorporated with H. Prothro, Pres.; W. I. Davis, Sec.

Mo., Westphalia—Star Chick Hatchery, capital \$25,000, incorporated by Geo. P. Player, B. F. Schwartz and others.

N. C., Biltmore—Three Points Hardware Co., capital \$25,000, incorporated by C. P. Lingerfelt, E. H. Sawyer, both Asheville, N. C.

N. C., Cornelius—Continental Construction Co., capital \$40,000, incorporated by Clark S. Lampton, Cornelius; Roy W. Burke and L. B. Walters, Polkton, N. C.

N. C., Elkin—Elkin Shoe Co., increased capital from \$300,000 to \$350,000.

N. C., Morehead City—State Fisheries Commn. Board will establish fish hatcheries near Fayetteville, Marion, Boone and Chimney Rock.

N. C., Mount Holly—Dunn Service, Inc., capital \$25,000, chartered by F. H. Dunn, J. W. Holland and others.

N. C., Winston-Salem—Englewood, Inc., capital \$100,000, chartered by J. A. Bolich, Jr., Frank A. Staggs and others.

Okla., Chickasha—Chalfant Hardware Co., increased capital from \$12,500 to \$37,500.

Okla., Anadarko—Geronimo Creamery Co., capital \$20,000, incorporated by Thomas L. Whitaker, W. M. Davis and others.

Okla., Oklahoma City—Lowry's Inc., capital \$20,000, chartered by B. H. Lowry, Oklahoma City; E. M. Lowry, Great Bend, Kan.

Okla., Tulsa—Clifford Manufacturing Co., capital \$100,000, incorporated by Victor Clifford, W. M. Crimer, B. F. Ingraham.

S. C., Columbia—Cary-Barber Printing Co., will erect \$25,600 building, 1200 block Sumter St.; brick and tile; John C. Heslep, Contr., Columbia.

S. C., Greenville—Printing—Hunt-Mc-

Knight, Inc., chartered with E. D. McKnight, Pres.; J. L. Hunt, Sec.

S. C., Lancaster—Harper Hardware Co., R. S. Harper, Pres. interested in establishing plant for manufacture of horse collar pads. (See Machinery Wanted—Pads (Horse Collar) Machinery.)

S. C., Union—Union Hotel Company, capital \$187,500, incorporated with W. S. Nicholson, Pres.; B. F. Alston, Sec.

Tenn., Chattanooga—Lookout Creamery Co., capital \$10,000, incorporated by E. C. Dickerson, B. P. Sanders and others.

Tenn., Chattanooga—Forest Hill Cemetery Assn., incorporated by Z. C. Patten, Jr., W. E. Brock and others.

Tenn., Columbia—Dimple Fruit Products Co., C. A. Parker, Jr., leased building corner of Tenth and South School Sts. and will manufacture preserves, jellies, etc.

Tenn., Covington—The O-Cedar Mills, Inc., let contract to J. C. Jamison, Covington, to construct dye plant in South Covington; brick and concrete.

Tenn., Knoxville—The Journal & Tribune Building Co., capital \$100,000, incorporated by A. F. Sanford, Fred T. Bonham and others.

Tex., Dallas—North Texas Dairymens Assn. of Dallas and Denton Counties, R. L. Mullins, Pres., have appropriated \$15,000 to establish creamery.

Tex., Dallas—Electric Appliance Co., capital \$90,000, reorganized with M. E. Martin, Pres.; Chas. L. Martin, Sec.-Gen. Mgr.; has merged with Electric Specialty Co.

Tex., Dallas—Abbey-Richardson Co., incorporated by F. G. Abbey, Dean Richardson and others.

Tex., Dallas—Progress Pictures, Inc., capital \$10,000, chartered by C. C. Ezell, Dias Callahan and others.

Tex., Dallas—Terminal Building Corp., increased capital from \$100,000 to \$700,000.

Tex., Dallas—Contracting—J. E. Ward Co., capital \$150,000, incorporated by J. E. Ward, E. A. Borgan, Clay C. Simpson.

Tex., Fort Worth—Southern Chemical Laboratories, incorporated by J. G. Gotch, Dr. Sidney J. Wilson and others.

Tex., Galveston—George Roofing Co., incorporated by J. L. and T. S. George and others.

Tex., Houston—Texas Packing Co., 110 Milan St., has plans by M. P. Burt, 206 Falls Bldg., Memphis, Tenn. for erection of meat packing market and complete packing plant; 5 stories; 56x116 ft.; fireproof, reinforced concrete; will install packing plant equipment, refrigeration equipment and small boiler of 50 h.p.; cost of building and equipment \$100,000. (Lately noted.)

Tex., Houston—Schotts Bakery will erect 2-story, reinforced concrete building on Washington Ave.; cost \$75,000; R. D. Steele, Archt., is receiving bids for construction.

Tex., San Antonio—J. D. Richie Clothing Co., 641 Drexel Ave., lately noted incorporated with \$25,000 capital, organized with J. D. Richie, Pres.; David Bernard, Sec.; has plant with daily output of 200 suits.

Tex., Waco—American Storage Battery Corp., 806 Austin Ave., lately noted incorporated with \$15,000 capital, organized with W. T. Bessonette, Pres.; V. K. Bessonette, Mgr.; has building with daily output of 100 auto and radio batteries; will install electric generator and general equipment for making lead plates for batteries, boxes, lead parts, etc. See Machinery Wanted—(Moulds (Batteries); Woodworking Machinery; Electrical and Chemical Equipment).

Tex., Wichita Falls—Chico Crushed Stone



Co., capital \$100,000, incorporated by G. P. Anderson, J. A. Kemp and others.

Va., Appomattox—Appomattox Construction Co., capital \$15,000, incorporated with W. L. Brown, Pres.; N. A. Wagers, Sec.

Va., Bristol—Huff and Campbell let contract to T. G. Martin & Sons, to construct funeral home corner of Pennsylvania Ave. and McDowell St.; 40x100 ft.; 2 stories and basement; brick; first floor will contain show rooms, etc.; second floor will be used for residence and basement will contain heating plant, etc.; chapel will have seating capacity of 200 persons; garage will be erected in rear of building; cost \$25,000.

Va., Danville—Smith Cutlery Co., capital \$100,000, incorporated with G. W. Gammon, Pres.; H. A. W. Smith, Sec.; request prices on machinery for the manufacture of steel shears, snips, hedge trimmers and pruning knives. (See Machinery Wanted—Cutlery Machinery.)

Va., Madison—Madison Farmers Supply Co., capital \$15,000, incorporated with T. J. Barry, Pres.; J. M. Houff, Sec.

Va., Markham—Leeds-Manor Co., increased capital from \$10,000 to \$200,000.

Va., Norfolk—United States Chemical Specialty Co., capital \$75,000, incorporated by A. D. Clements, C. P. Breese and others.

Va., Richmond—American Wrench Manufacturing Co., capital \$25,000, incorporated with John D. Blair, Pres.; Morris Hunter, Sec.

W. Va., Bluefield—Flat Top Bottling Co. will erect plant on Virginia Ave.

W. Va., Wheeling—West Virginia Match Co., capital \$300,000, incorporated by E. L. Yeager, Louis F. Haller and others; has acquired building and will remodel for match factory; Fred F. Fairs, Archt. (Lately noted.)

### Motor Cars, Garages, Tires, Etc.

Ala., Andalusia—Coco Pep Co., G. S. Walte, Pres.-Mgr., will erect gasoline storage tanks and oil warehouse, approximate cost \$5000.

Ala., Selma—Finklea Motor Co., Inc., Box 832, organized with J. L. Finklea, Pres.-Sec. and Mgr.; W. J. Nettles, Treas., Tunnel Springs, Ala. (Lately noted incorporated, capital \$15,000.)

Ark., Little Rock—Benton Oil Co., capital \$25,000, incorporated with W. H. Benton, Pres.; T. C. Paty, Sec.; operate filling stations.

Fla., Clearwater—Automobiles—Leo Kennedy let contract to R. M. Thompson to erect \$20,000 automobile building at Drew St. and N. Garden Ave.

Fla., Ocala—Garage, etc.—Edward Tucker will erect 1-story, 108x200-ft. fireproof building for garage and sales rooms; brick construction, cement and tile floors, metal or steel rolling doors; plate glass front; building bids open Sept. 20; A. C. Price, Archt., Bradentown, Fla. Previously noted. (See Machinery Wanted—Building Materials.)

Ky., Louisville—Automobiles—R. M. Denhard Co., incorporated by R. M. Denhard, Argus B. Armes and others.

Ky., Louisville—Louisville Filling Station, capital \$10,000, incorporated by R. A. Reynolds, R. E. Enos and others.

Ky., Middlesborough—Dort-Stutz Sales Co., capital \$50,000, incorporated by J. E. Evans, J. R. Ramey and others.

La., Baton Rouge—Davis Chevrolet, Inc., capital \$30,000, incorporated by Wm. M. Davis, Pres.; D. E. McInnes, Jr., Sec.-Treas.

Md., Baltimore—Wyman Park Apartment Corp., 39th and Beech Ave., will erect 1-

story brick garage building, having 37 compartments; cost \$12,000.

Md., Baltimore—Garage—Geo. H. Martin & Co., 940 Linden Ave., will erect brick garage building one and two story, corner Payson St. and Elgin Ave., 30,000 sq. ft., brick, steel sash, slag roof, electric lights, steam heat; approximate cost \$42,000; Stanislaus Russell, Archt., 11 E. Lexington St.

Md., Havre de Grace—Tiger Tire & Rubber Corp., 749 Equitable Bldg., Baltimore, Md. will erect plant for the manufacture of automobile tires, initial capacity 300 tire daily; estimated cost \$150,000. (Lately noted incorporated, capital, \$1,000,000.)

Miss., Vicksburg—Filling Station, etc.—Standard Oil Co., W. R. Hovious, local Mgr. will erect \$20,000 filling station corner Walnut and China Sts., pressed brick veneer and steel construction, new design of lighting system; has acquired 75 ft. square site.

Mo., Aurora—Baldwin Motor Co., capital \$12,000, incorporated by Joe Wilhite, Aurora; W. A. Coon, and A. R. Baldwin, Springfield, Mo.

Mo., Jefferson City—Motor Investment Co., capital \$25,000, incorporated by G. E. Grant, Lewis H. Cook and others.

Mo., Kansas City—G. T. O'Maley, Inc., capital \$150,000, chartered by G. T. O'Maley, Vincent R. Turgeon and others.

Mo., Kansas City—Automobile Accessories—Watson Stabilator Co., capital \$30,000, incorporated by H. F. Landeck, W. O. Widener and others.

Mo., St. Louis—Peoples Service Station, 3500 Lindell Blvd., incorporated by W. H. Stubbefeld, Jr., 5381 Pershing Ave., S. P. Dalton and others.

Mo., St. Louis—Automobile Accessories—Wagner Gear Co., capital \$10,000, incorporated by Isidore Wagner, D. R. McVicker and others.

Mo., St. Louis—Peerless Motor Co., incorporated; Corporation Trust Co., Agent, 1110 Federal Reserve Bank Bldg.

Mo., St. Louis—Hallenberg-Wagner Motor Co., capital \$25,000, incorporated by O. T. Hallenberg, E. P. Wagner and others.

Mo., St. Louis—Swinehart Garage & Service Co., incorporated by Wm. J. Holdaway, O. Blackington and others.

Mo., St. Louis—Big Four Auto Co. increased capital from \$20,000 to \$100,000.

Mo., St. Louis—Johnson-Wright Motor Co., capital \$15,000, incorporated by W. R. Johnson, H. C. Wright and others.

N. C., Greensboro—Filling Station, etc.—Indian Refining Co. will erect 60,000 gal. capacity gasoline and kerosene storage and distributing plant on W. Lee St., garage and office building are included in plans; W. H. Brandin, Company's Engr.

N. C., Wilmington—Overland-Knight Co., capital \$50,000, incorporated by J. H. and L. P. Hinton and Leo Little.

Okla., Enid—Enid Oldsmobile Co., incorporated by M. J. McGraw, John O'Connor and others.

S. C., Greenville—Santo Sotile Inc., capital \$25,000, incorporated with Santo Sotile, Pres.; E. F. Blackley, Sec.

Tex., Austin—Filling Station—Grayburg Oil Co., will erect gasoline filling station on W. 6th and Guadalupe Sts.

Tex., Cibolo—A. T. Pfeil will erect one story, tile and stucco garage building; Morris & Noonan, Archts., San Antonio, Tex.

Tex., Dallas—Rose Motor Co., capital \$50,000, incorporated by W. F. and L. J. Rose.

Tex., San Marcos—Garage, etc.—Mayhall-Taylor Motor Co. has acquired property on

W. Hopkins St., will erect 150x120-ft. building for office, show-room and garage.

Tex., Smithville—Colorado Motor Co., incorporated by Roy Ragsdale, Geo. B. Powell and others.

Va., Coeburn—Cinchfield Motor Co., organized by Chas. Moneyhun, Fayette Stallard and others will erect 2 story garage in West Coeburn.

### Road and Street Construction

Alabama—State Highway Comm., Montgomery, let contracts for 6 roads as follows:

Etowah County, 1 mi. road between Attalla and Gadsden, Laslie Bros., Chattanooga, Tenn., at \$38,355.60; Morgan County, 1.3 mi. Bee Line highway at Hartselle, Texas Road Co., Dallas, Tex., at \$44,131.95; Wilcox County, 12½ mi. Camden-Greenville road, J. W. Gwin, Birmingham, Ala., at \$105,850.50; Franklin County, 6 mi. road from Russellville to Phil Campbell, S. C. Taylor, Willsonville, Ala., at \$81,990.60; Winston County, 20 mi. road between Haleyville and Double Springs, W. C. McCoy, LaFayette, Ala.; Cherokee County, 10.21 mi. from Etowah County line to Center in Cherokee County, Stanley & Singer, LaFayette, Ala., at \$99,191.90.

Ala., Anniston—City let contract to J. F. Morgan Paving Co., Birmingham, at \$18,500 for cement sidewalks and paving.

Ala., Ashland—State Highway Dept., Montgomery, Ala., will receive bids for 14.293 mi. Clay County-Clebourne road.

Ala., Ensley—Ensley Realty Board interested in paving road from Crumley chapel to connect with paved road from Mulga.

Ala., Florence—City let contract to Kirkpatrick and Hitchcock, Florence, to pave additional streets, including Seven Points at North Florence; W. S. Estep, Mayor.

Ala., Gadsden—State Highway Comm., Montgomery, Ala., will receive bids until Sept. 25, to build state and federal section of Gadsden-Attalla road, through Alabama City; W. S. Keller, State Highway Engr. (Lately noted bids until Sept. 11.)

Ala., Montgomery—Montgomery County let contract at \$8000 to grade and gravel 1.2 mi. Fairview Ave., from Cleveland Ave. to Mobile road.

Ala., Northport—City and Tuscaloosa County, Board of Revenue, plan paving University Ave., and at approaches to Warrior River Bridge, and through Northport; State and Federal Aid. Address The Mayor.

Ala., Selma—City plans paving Mabry St. from Alabama River to Jeff Davis Ave.; Lapsley from Selma Ave. to Jeff Davis; 1st Ave. between Range and Summerfield road; and E. Water St. from Sylvan to city limits; will also lay sidewalks on both sides of Green, Lawrence and Sylvan Sts.; L. D. Porter, Chmn. Street and Lights Comm.

Ala., Tuscaloosa—Tuscaloosa County let contract to Wallace Brothers, Hargrove Road, Tuscaloosa, to re-surface Birmingham road from 11-mi. post to Jefferson County line at 30 mi. post. Address Board of Revenue.

Ark., Camden—City let contract to J. P. McNulty, Pine Bluff, at \$65,000, for 25 blocks paving in new residence section; concrete surface.

Ark., De Queen—Sevier County plans completing Bankhead Highway, between Ultima, on western border of Sevier County, and section passing through McCurtain County, Okla.; Geo. Holman, County Judge.

Ark., Hot Springs—City will receive bids until Sept. 26 to pave Central Ave. from Grand Ave. to corporate limits; 10,650 sq. yds. concrete; 875 lin. ft. concrete curb and

gutter; plans, etc., from City Engr.; J. E. Harper, Chmn. Comm.

Ark., Monticello—Comms. of Sidewalk, Curb and Gutter Improvement Dist. No. 1, will receive bids until Sept. 24 for 6 mi. sidewalks, curbs and gutters in Dist.; plans, etc., from Frank A. Pritchett, Engr., Riegley Bldg., Little Rock, or Williamson & Williamson, Attys., Monticello, Ark.

Ark., Texarkana—Ben Collins, P. J. Ahern and S. & D. Wakin will pave Broad St. from Walnut to Hazel Sts.; Geo. T. Conway, Mayor.

Ark., Texarkana—City contemplates paving 5th and 16th Sts.; Geo. T. Conway, Mayor.

D. C., Washington—District Comms. receives bids until Sept. 17 to grade, improve and pave streets, avenues and roads in Dist.; plans, etc., on file at Room 427 District Bldg.

Fla., Bartow—State Road Dept., Tallahassee, Fla., let contract to Hughes Transfer Co., Bartow, to build shoulder on Dixie Highway from Polk County line north of Loughman to end of highway leading out from Kissimmee at old fair grounds; Hughes Co., will also build fill through Loughman swamp.

Fla., Bradentown—Details under Land Developments.

Fla., Clearwater—Pinellas County Comms. will receive bids until Oct. 16 to build 8 roads as follows:

Nos. 1, 2, 3, 4, 5, 6, 7, 8; 550,000 sq. yds. vitrified brick, with bituminous filler, asphalt block with asphalt filler, sheet asphalt, or bituminous macadam penetration method on compacted lime rock base, with concrete curb, or as alternative portland cement concrete pavement; also relay 20,000 sq. yds. vitrified brick surface with bituminous filler, and double bituminous surface-treated lime rock shoulders on road No. 5; plans, etc., from C. E. Burleson, County Engr. (Lately noted bids until Aug. 14.)

Fla., Inverness—Citrus County will receive bids until Oct. 9, to furnish material and grade, construct drainage structures, etc. on 17.7 mi. Crystal River-Inverness Road; 160,000 sq. yds.; plans, etc., from C. D. Schultz, Clk., County Comms., Inverness, and E. V. Camp and Associates, Conslt. and Supvg. Engrs., Atlanta, Ga., and Jacksonville, Fla.

Fla., Key West—Monroe County Comms. plan building road from Stock Island to Saddle Bunches also bridge from Key Largo to Lake County; will vote Oct. 16 on \$300,000 bonds.

Fla., Miami—Details under Land Developments.

Fla., Miami—City will receive bids until Sept. 25 for sheet asphalt paving under Paving Cont. No. 48; 7400 sq. yds. sheet asphalt; 1200 lin. ft. curb and gutter; 300 lin. ft. stone headers; plans, etc., from F. H. Wharton, City Mgr., or Chas. W. Murray, Director of Public Service.

Fla., Milton—Santa Rosa County plans building 2 roads as follows:

12 mi. road from Yellow Bridge now under construction, to Okaloosa County line, near Mary Ester, via Holley and East Bay Bridge at Harper; extend road from East Bay Bridge to Town Point, about 6 mi. from Pensacola; C. H. Overman, County Engr.

Fla., Sebring—Highlands County, Avon Park Township, plans building 18 mi. lateral roads in northern section; will vote Oct. 16 on \$50,000 bonds. Address County Comms.

Fla., Sebring—Highlands County will receive bids until Oct. 1 to improve 2 sections of Lake Annie road, and Crewsville road. Address County Comms.

Fla., West Palm Beach—City receives bids

until Sept. 18 to grade, pave, oil and lay concrete curb on Parker Ave. from Wilson St. to South line of Sec. 4; plans, etc., from Geo. L. Wright, City Mgr.

Ga., Collegepark—Fulton County let contract to Pittman Construction Co., Atlanta, Ga., for \$18,000 to pave 10,000 sq. yds. Washington St., from Hawthorn St. to County line; vibrolithic concrete.

Ga., Moultrie—State Highway Dept., Atlanta, Ga., will re-build 15 mi. Moultrie-Hartsfield road, Colquitt County, from Moultrie to Mitchell County line; cost \$60,000; Federal Aid to furnish half.

Ga., Waynesboro—City plans paving principal business streets; contemplates \$50,000 bond issue. Address The Mayor.

Kentucky—State Highway Dept., Frankfort, Ky., let contracts for 3 road projects as follows:

Larue County, 5.409 mi. Buffalo road, from corporate limits of Hodgenville to Nolin River Bridge; waterbound macadam; State Project No. 41, Sec. A, Federal Aid Project No. 107, to McClellan & Campbell, Bowling Green, Ky., at \$113,703.84, and to R. B. Taylor Co., Louisville, Ky., at \$8016.85, for oil surface treatment; Shelby County, grade and drain 485 ft. Frankfort road, Midland Trail, 6 mi. east of Shelbyville, State Project No. 17, Sec. C, to Monahan & Turner, Lexington, Ky., at \$4274.33; Pendleton County, to Broadus & Forbes, Richmond, Ky., at \$14,960, to furnish 8000 tons crushed limestone for 7 mi., Falmouth-Covington road, from junction of Williamstown road, State Project No. 62, Sec. C, and 21-C-1. Also plans grading and constructing drainage structures on 7.32 mi. Jackson-Campton road, from Wildhurst to Wolfe County line, Breathitt County, State Project No. 4, Federal Aid Project No. 102.

Ky., Middlesboro—City let contract to Humbard Construction Co., Knoxville, Tenn., to reconstruct East Cumberland Ave.; establish 16-ft. wide park at center; 22-ft. wide driveways on either side; rock asphalt; also to improve Fitzpatrick Ave.; both parts of Dixie Highway.

La., Bastrop—Details under Sewer Construction.

La., Baton Rouge—East Baton Rouge Parish, 10th Ward Special Dist., plans improving 4 roads as follows:

9 mi. Greensburg highway; 2 mi. Hooper road, from Strickland Bridge to intersection with Greensburg highway; 4 mi. Greensburg highway to Greenwell Springs road; ¾ mi. Black Water road from Hooper's store to Black Water M. E. Church; will vote Dec. 8 on \$25,000 bonds. Address Police Jury.

La., Baton Rouge—East Baton Rouge Parish received bids from W. E. Green, at \$7932, to grade about 8 mi. Joer road, from Tom Morgan's crossing to within a mile of Indian Mound School. Address Police Jury.

La., New Orleans—City let contract to lay street to proposed plant of Lukens Iron Works on Industrial Canal, and Richardson Co.'s plant; plans connecting Mazant St. with Poland St., then over Poland St. to plant; Public Belt R. R., plans building concrete culvert under tracks leading to Luken plant. Address City Engr. Klorer.

La., Winnsboro—Louisiana Highway Comm., Reymond Bldg., Baton Rouge, will receive bids until Sept. 25 for 2 sections, Franklin Parish, State Project No. 336, as follows: A—6 mi. from Richland-Franklin Parish line south; B—6 mi. from Winnsboro northeast; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Md., Baltimore—Paving Comm., 213 E. Lex-

ington St., plans paving Rogers Ave., with sheet asphalt, from Buck Lane to Reisters-town road; R. Keith Compton, Chmn.

Md., Frederick—State Roads Comm., 601 Garrett Bldg., Baltimore, Md., will receive bids until Sept. 25 for 2 mi. concrete road, between Libertytown and Oak Orchard; Cont. F-62; John N. Mackall, Chmn.

Md., Westminster—State Roads Comm., 601 Garrett Bldg., Baltimore, received low bid from Gosnell-Russell and Co., Frederick, Md., at \$39,866.66 for 1 mi. concrete road from New Windsor toward Englar's Mill, via Buffalo Road; John N. Mackall, Ch. Engr., Baltimore.

Miss., Belzoni—Humphreys County let contract to Graves & Gaddis, Bolton, Miss., at \$148,000, for 5 hard surfaced roads, embracing 24¼ mi., as follows:

½ mi. from Golden Lake to 2 mi. west of Hill's Mill; 5½ mi. Daybreak road; 3½ mi. Pluck Plantation; 3 mi. New Wasp Lake road; 4¼ mi. Gibson road. Address County Comms.

Miss., Canton—City receives bids until Sept. 18 for 100,000 sq. yds. street paving; brick, wood blocks, concrete, asphalt, or combination of asphalt; plans, etc., from H. R. Covington, City Engr., Canton; P. H. Virden, City Clk.

Miss., Corinth—State Highway Dept., Jackson, Miss., let contract to McElrath and Rogers, Grenada, Miss., at \$89,622.53 for 10 mi. Lee Highway between Corinth and Iuka.

Miss., Gulfport—Harrison County, Board of Supvrs., will receive bids until Oct. 3 to improve 2 sections of roads as follows:

Surface with warrenite-bitulithic or asphaltic concrete 900 ft. beach road; surface with asphaltic macadam penetration, 1¼ mi. beach road; plans, etc., from Eustis McManus, Clk.

Miss., Jackson—Details under Bridges, Culverts, Viaducts.

Miss., Jackson—State Highway Comm., will receive bids until Sept. 28 to build 2 sections of roads as follows:

3.50 mi. Jackson-Elaine road; 20 mi. Jackson-Pallehatchie road, connecting Rankin turnpike with Pallehatchie.

Miss., Port Gibson—Claiborne County, Board of Supvrs., let contract to H. B. Vardaman, to grade Port Gibson and Bruinsburg road.

Miss., Senatobia—Board of Alderman, and Tate County Board of Supvrs., plan building concrete road from city limits to Agricultural High School, being part of Jefferson Davis Highway; board also authorized surfacing road from Senatobia to Senatobia Creek bottom.

Missouri—State Highway Comm., Jefferson City, let contracts for 6 road projects as follows:

Buchanan County, 4 sections, about 10 mi. from St. Joseph east, to James Staton & Sons, Leavenworth, Kansas, at \$487,912; Jackson County, 3 mi. hard surfaced road from Leeds east, to W. R. Ross, Kansas City, Mo., at \$140,121; St. Louis County, 1½ mi. rock asphalt road from Maplewood west, to E. C. Johnson, Carrollton, Mo., at \$58,160.

Mo., Brookfield—City let contract to R. W. Perkins Construction Co., Kansas City, to re-surface E. Robard St.

Mo., Butler—City let contract to Haller & Davis, to pave Delaware St. Address The Mayor.

Mo., Independence—Highway Construction Co., Webb City, Mo., was awarded contract at \$123,781.18 to pave 4 mi. Kansas City-St. Louis road, Jackson County, from Blue



Ridge road to end of concrete paving on Raytown road.

Mo., Jefferson City—State Board of Fund Commrs. voted \$5,000,000 bonds for road building.

Mo., Joplin—City plans resurfacing Main St. between 10th and 12th; also let contract to V. E. Koch to pave with inverted penetration material, Sergeant Ave., from 1st to C St.; O. P. Mahoney, Commr. of Streets.

Mo., Kennett—City will let contracts soon to pave 1st and S. Main Sts., with concrete. Address The Mayor.

Mo., Maryville—City let contract to Cook & O'Brien Construction Co., Kansas City, to pave with vitrified brick, W. 3rd St., and Grand Ave.

Mo., Poplar Bluff—City will let contracts soon to pave Short 5th St. Address The Mayor.

Mo., St. Louis—Details under Land Developments.

Mo., St. Louis—City received low bids to pave following streets:

From Granite Bituminous Paving Co., for bitulithic paving on following: Dickerson St. from Jefferson to Garrison Aves., at \$42,701.75; Thomas from Jefferson to Garrison, at \$41,002.60; Dayton, from Jefferson to Garrison, at \$46,017.40; California Ave. from Russell to Park Aves., at \$47,272.65; Wm. Hafner, at \$37,512.10 to lay granite on Madison from Wharf to Broadway; Brighton Construction Co., at \$35,986.45, to lay asphalt on Hamilton Ave., from Delmar Blvd., to Plymouth Ave. Address The Mayor.

Mo., Springfield—City and Springfield Road Dist., plan re-surfacing St. Louis St., with macadam binder; each to pay equal amounts. Address The Mayor.

Mo., Springfield—Details under Sewer Construction.

Mo., Trenton—City plans paving 17th and 9th Sts. Address The Mayor.

N. C., Asheville—Board of Commrs. plan opening street from Clingman Ave. to business section, paralleling Patton Ave.

N. C., Gastonia—City plans laying concrete sidewalks on 2nd Ave. from Chestnut to Church; Oakland from 3rd to 4th; 4th from Marietta to South; Jackson, from 5th to 6th; E. Davis, from Church St. 18 ft.; Weldon, from Airline to Rankin; S. Marietta from 3rd to 4th; 5th Ave. from Marietta to South. Address The Mayor.

N. C., Greensboro—City let contracts at \$10,000 to grade and pave 5000 sq. yds. one course cement sidewalks as follows: S-1, to Murray Construction Co.; S-2 to W. J. Grantham; S-3 to Crowl & Crews; P. C. Painter, City Mgr.

Okl., Claremore—Rogers County plans building 3 roads through County as follows: one each paralleling Missouri Pacific and Frisco Lines, north and south, and one east and west from Mayes County line to Tulsa County line; voted \$650,000 bonds. Address County Commrs.

Okl., McAlester—Pittsburgh County Commrs. contemplate building and improving 2 roads as follows: 5 mi. concrete highway from Hartshorne west; pave 8 mi. road between McAlester and Savanna.

Okl., Muskogee—City let contract to Nelson Brothers, Muskogee, at \$18,500 to pave 21st St. from Boston to Arline; will receive bids soon to pave with plain concrete W. Broadway from 31st to 34th, estimated cost \$18,000; also to re-surface Cherry St. from Gibson to North, estimated cost \$7000; plans paving 24th St. from Columbus to Court.

Okl., Wagoner—Details under Bridges, Culverts, Viaducts.

S. C., Fort Mill—City plans paving street to Fort Mill Manufacturing Co.'s Mill No. 2, and to old Nation Ford road beyond city limits; 1500 ft. hard surface, 1½ mi. cement curb and gutter and top soil road; cost \$25,000. Address The Mayor.

S. C., Greenwood—Greenwood County will build top soil road to river on west side. Address County Commrs.

S. C., Laurens—Laurens County Highway Comm., plans building 5 or 6 mi. road from Cross Hill to Puckett's Ferry on Saluda River; also from Old Cross Hill to river; \$10,000 available.

S. C., Spartanburg—Details under Land Developments.

Tenn., Chattanooga—City will receive bids until Sept. 25 to lay cement concrete pavements on following streets:

Cherry from 7th to 8th; 13th from Market to Cowart; 13th from Cowart to Chestnut, and from Chestnut to Carter; Rossville Ave. from Main to Hotel; also plans paving 10th from Lindsay to King, and Newby between Market and 10th; E. D. Bass, Commr. of Streets and Sewers.

Tenn., McKenzie—City plans street-paving. Address The Mayor.

Tenn., Sweetwater—City will receive bids until Sept. 24, for 5 mi. street paving, including all of downtown districts and portions of residential section; also to install sewer system. Address The Mayor.

Tex., Abilene—Taylor County plans 2 hard surfaced highways across county, east and west and north and south; will vote Oct. 16 on \$350,000 bonds. Address County Commrs. (Lately noted.)

Tex., Angleton—Brazoria County plans building 2 roads as follows:

8.1 mi. Stratton Ridge road, State Highway No. 19, between Bastrop Bayou and Oyster Creek Bayou, shell surface; Brazoria County, Federal Aid Project No. 387, estimated cost \$97,831; also 3.12 mi. 16-ft. shell surface road on State Highway No. 19; estimated cost \$33,570; will receive bids soon; E. N. Gustafson, County Engr.; J. F. Loggin, County Judge.

Tex., Austin—Travis County received low bid from H. J. Evans, 502 San Antonio St., Austin, at \$43,581.80, to grade and construct drainage structures on 7.92 mi. Austin-Fredericksburg Highway, west from Oak Hill.

Tex., Barstow—Ward County will receive bids until Oct. 9, tentative date, to grade, construct reinforced concrete drainage structures, and gravel and caliche surface 5.5 mi. State Highway No. 1; estimated cost \$45,000; R. E. Booker, Res. Engr., Monahans; E. W. Suratt, County Judge.

Tex., Bay City—Matagorda County plans 8.33 mi. 160-ft. shell road on State Highway No. 12; estimated cost \$72,000; E. N. Gustafson, Engr., Engleton, Tex.; W. E. McNabb, County Judge.

Tex., Beaumont—Jefferson County received low bid from Houston Construction Co., Houston, at \$211,254.06 for 7.35 mi. Voth road. State Highway No. 40, Federal Aid Project No. 349.

Tex., Boston—Bowie County plans surfacing 3 mi. State Highway No. 5, between New Boston and Texarkana; gravel and amasite paving; cost \$40,000; F. E. Hess, Engr., Dallas, Tex.; J. B. Pirkey, County Judge, New Boston.

Tex., Cameron—Gilman County, Cameron Road Dist., plans graveling Ad Hall-to-Minerva Highway; also to construct 2-way steel bridge across Little River, known as Mc-

Keown Bridge; will vote on \$125,000 bonds; A. F. Mitchell, County Engr.; Jeff T. Kemp, County Judge. State and Federal Government to furnish like amount.

Tex., Center—City will receive bids until Oct. 15 for 56,000 sq. yds. concrete paving; O. H. Polley, Mayor; Titus & Dillon, Engrs.

Tex., Center—Shelby County plans 13 mi. gravel surfaced road on State Highway No. 35, Tenaha Dist.; estimated cost \$150,000; Titus & Dillon, Engrs.; D. R. Taylor, County Judge.

Tex., Corpus Christi—Nueces County plans expending \$230,000 for 10 mi. road Corpus Christi-Kingsville road; gravel base, 1-in. Uvalde rock asphalt top; Calvin E. Cocke, County Engr.

Tex., Decatur—Wise County plans 11.5 mi. State Highway No. 39, beginning 4 mi. south of Chico, extending through Chico to Jack County line; estimated cost \$127,000; State Highway Comm., Austin, granted \$63,500 aid; H. R. Smith, County Engr.; S. M. Ward, County Judge.

Tex., Edinburg—W. L. Pearson, San Antonio, Tex., was awarded contract at \$700,000 to extend highway across Hidalgo County, from Cameron County line to Starr County line; bituminous topping.

Tex., Eldorado—Schleicher County plans building 8 mi. road on State Highway No. 4, south of Eldorado; J. L. Neel, County Engr.; W. F. Ford, County Judge.

Tex., El Paso—City let contract to El Paso Bitulithic Co., to pave Madeline Ave., from Park road to Maiden Lane and Park road in front of blocks 21, 26 and 27, Kern Place; plans improving Indiana St. from Portland to San Diego Sts., and San Diego St. from Indiana St. to Ohio Ave.; also paving and improving Cambridge St. from Pershing Drive to Madison St., estimated cost \$32,699.71; railway companies to pay \$2375. Address City Engr. Stewart.

Tex., Ennis—City plans paving 12 streets in residential section, totaling 2½ mi., including Main, East Ave., W. Brown, West Ave., W. Baylor, W. Decatur, S. Dallas, N. McKinney, W. Crockett. Address The Mayor.

Tex., Floresville—Wilson County plans building State Highway No. 29-B; State Highway Comm., Austin, granted \$297,500 federal and \$99,833.66 state aid; J. E. Canfield, County Judge.

Tex., Fort Worth—City Comm. will pave W. 7th St. from Colvin St. to Camp Bowie Bldg.; about 8300 ft.; received bids to pave Irma, Lee and Illinois Sts.

Tex., Glen Rose—Somervell County plans 12.5 mi. State Highway No. 10-A, from Glen Rose north, to Erath County line; State Highway Comm., Austin, granted \$49,800 state aid; Henry J. Cox, County Engr.; Cecil Collings, County Judge.

Tex., Groveton—Trinity County plans laying bituminous topping on 19 mi. State Highway No. 19; W. J. Kelley, County Engr.; F. J. Berry, County Judge.

Tex., Hemphill—Sabine County will receive bids until Oct. 18 for 2 sections of roads as follows: Grade, construct reinforced concrete and timber piling drainage structures, and surface with iron ore gravel, 7.2 mi. State Highway No. 21, estimated cost \$55,000 to \$60,000; 8.4 mi. State Highway No. 8, estimated cost \$90,000; W. A. French, County Engr., San Augustine; W. H. Davidson, County Judge.

Tex., Houston—City plans expending \$47,000 to pave and drain Telephone road, from Eastwood to city limits, and \$30,000 to improve Cut-Off road; gravel, with asphalt surface; J. C. McVea, City Engr.

Tex., Houston—City let contract to Smith



Bros., Inc., Houston, at \$100,087, to lay 28,800 sq. yds asphaltic concrete on concrete base on Waugh Drive.

Tex., Houston—City will receive bids soon to pave Buffalo Bayou drive through Sam Houston park, from park entrance on Walker Ave. to Shipman St.; gravel or shell base, with gravel top; J. C. McVea, City Engr.

Tex., Jasper—Jasper County will receive bids soon to gravel surface 7.9 mi. State Highway No. 7, west from Indian Creek; estimated cost \$65,000; C. P. Hunter, County Engr.; A. D. Hancock, County Judge.

Tex., Kaufman—Kaufman County plans laying bituminous macadam surfacing on State Highway No. 40, in Grandell Dist.; State Highway Comm., Austin, granted \$43,209 aid; C. A. Anderson, Res. Engr.; W. P. Williams, County Judge.

Tex., Kountze—Hardin County plans building 2 sections of roads as follows: 4.43 mi. gravel road on State Highway No. 8, estimated cost \$49,000; 1.31 mi. gravel surface road on State Highway No. 8, including construction timber pile trestle bridge; estimated cost \$52,800; Geo. C. Brown, County Engr.; T. E. Teel, County Judge.

Tex., Kountze—Ch. Engr., U. S. Bureau of Public Roads, Washington, D. C., approved plans for 15.6 mi. 16-ft. gravel road on State Highway No. 40, Hardin County, from Kountze to Jefferson County line; estimated cost \$182,500; Geo. C. Brown, County Engr.; T. F. Teel, County Judge.

Tex., Kountze—State Highway Dept., Austin, approved plans to gravel surface 9.45 mi. section of Beaumont-Silsbee road, on State Highway No. 8, Hardin County; estimated cost \$89,000; will receive bids soon; Geo. C. Brown, County Engr.; T. F. Teel, County Judge.

Tex., La Grange—Fayette County, plans 9.5 mi. State Highway No. 20, from Lee County line to intersection with State Highway No. 3-B; State Highway Comm., Austin, granted \$61,420.12; Capt. A. Schlafl, County Engr.; J. P. Ehlinger, County Judge.

Tex., McKinney—Collin County let contract to D. H. Purvis & Son, McKinney, at \$140,000 for 4 roads, embracing 23 mi., radiating out of McKinney; gravel resurfacing.

Tex., Marlin—Falls County plans building 2 sections road as follows: Gravel surface 7.65 mi. State Highway No. 44, estimated cost \$92,000; construct reinforced concrete and treated pile trestle drainage structures, and gravel surface, 5.68 mi. State Highway No. 44, estimated cost \$101,000; J. P. Wehring, County Engr.; Lott, Tex.; Walter S. Hunnleut, County Judge Marlin.

Tex., Marshall—City plans street paving; will vote Oct. 9 on \$50,000 bonds. Address The Mayor or H. S. Rice, City Sec.

Tex., Newton—Newton County let contract to Dean Word, Itasca, Tex., at \$200,000, for 20.94 mi. gravel road on State Highway No. 7; Project 176-B.

Tex., Orange—Orange County plans building road dump from end of Bland road to Neches River. Address A. H. Coale, County Clk.

Tex., Palestine—Anderson County will receive bids for 2 roads as follows: Lateral road from Elkhart to Trinity River; also Montalba road; concrete. Address County Commrs.

Tex., Palestine—Anderson County plans laying concrete or bituminous concrete pavement on 10 mi. State Highway No. 19, from Palestine north; cost \$241,924.66; State Highway Comm., Austin, granted \$119,424.66,

state and federal aid; E. W. Davis, County Engr.; W. C. Quick, County Judge.

Tex., Palo Pinto—Palo Pinto County plans building 2 roads as follows/ 5 mi. 18-ft. bituminous macadam road on State Highway No. 25, between Mineral Wells and Salesville; estimated cost \$100,000; 15.47 mi. 180-ft. bituminous macadam pavement on Bankhead Highway, between Mineral Wells and Eagle Creek; estimated cost \$402,500; will receive bids soon; G. W. Courter, County Engr.; E. L. Pitts, County Judge.

Tex., San Antonio—Bexar County plans 7.3 mi. State Highway No. 3, Seguin Road. estimated cost \$116,500; State Highway Comm., Austin, granted \$77,384.76 state and federal aid; A. C. Pancoast, County Engr.; Augustus McCloskey, County Judge.

Tex., Sierra Blanca—Hudspeth County will receive bids in near future to grade, construct concrete drainage structures, and gravel 9.04 mi. State Highway No. 1; estimated cost \$25,000; J. W. Carter, County Engr., Court-house, El Paso, Tex.; J. W. Walling, County Judge, Sierra Blanca.

Tex., Tyler—Smith County plans building Woodrow Wilson Highway from Tyler to Arp, to connect with State Highway from Henderson to Smith County line; 4 mi. concrete, remainder gravel and clay, with tarvia coating; concrete bridges and culverts. Address County Commrs.

Va., Norfolk—City plans expending \$11,439 to improve Brandon Ave. between West Ghent Blvd. and Colley Ave.; Walter H. Taylor, 3rd, Director of Public Works.

Va., Norfolk—City receives bids until Sept. 17 to pave Market St. from Monticello Ave. to Brewer St., and Brewer St. from Market to Tazewell Sts.; Durax blocks on 6-in. concrete base; granite curb in concrete; plans, etc., from Walter H. Taylor, 3rd., Director of Public Works.

Va., Portsmouth—Norfolk County, Comm. of Roads and Bridges contemplates building part of Benefit and Tabernacle roads from Sign Pine to intersection of Route No. 27; R. B. Preston, Road Engr., Room 414 New Kirf Bldg., Portsmouth, Va.

W. Va., Clarksburg—Details under Land Developments.

W. Va., Clarksburg—City will receive bids until Sept. 25 to improve following streets and construct sanitary sewers: pave Virginia Ave., Webster St., Dodge Court, alley between Milford and Duff; grade Joyce and Waldeck Sts.; construct sewers in S. Chestnut, Broadway and Main Sts.; plans, etc., from City Mgr., and City Engr.; D. H. Hamrick, City Clk.

W. Va., Clarksburg—Harrison County let contracts to grade, etc., 3 roads as follows: Construct drainage structures on 4 mi. road between Laura Lee and Sardis Dist. line in Eagle Dist., to Wayne F. Allen, at \$52,673.40; surface with concrete 1 mi. road from end of road near Bridgeport toward Boothsville in Simpson Dist., to M. J. Fahey, at \$37,234.60; resurface 1.5 mi. road from end of concrete pavement on Mudlick Run to point near Adamsville in Clay Dist., Ferguson & Holbert, low bidders at \$39,688.50 for bituminous macadam surface and at \$37,572.50 for seal coat.

W. Va., Huntington—City let contract to J. A. Griffith at \$7696.80 to pave with brick or concrete, W. 6th St. from dams to Jefferson Ave.

W. Va., Weston—Lewis County, Freeman Creek Dist., will receive bids until Oct. 15 to build 3 roads, embracing 23½ mi. as follows:

From Shadybush, near Weston to Harrison County line, through Jackson Mill; from

Camden to Churchville and up Fink Creek, 2 mi.; from Jackson Mill to Vadis, and then to Hurst. Address County Commrs.

W. Va., Winfield—Putnam County, Pocataligo Dist., plans extending 1 mi. hard surfaced road from Nitro to Bowling Lane; also to widen and improve present 9-ft. road from Bowling Lane to Poca; contemplates voting on \$100,000 bonds. Address County Commrs.

## Sewer Construction

Fla., Avon Park—Town, G. L. Crews, Clerk, receives bids until Oct. 1 for construction of from 25 to 200 septic tanks, either of brick or stone, together with necessary inlet and outlet pipes.

Fla., Miami—Details under Land Developments.

Ga., Bowden—City will improve and enlarge sewer system, will vote Oct. 2 on \$15,000 bonds. Address The Mayor.

La., Bastrop—City will expend \$50,000 in improvements to sewer, paving, etc.; O. F. Reisner, Engr., Lecompte, La.

Md., Baltimore—Board of Awards, Howard W. Jackson, Pres., opens bids Sept. 26 to construct approximately 350 lin. ft. of 9-ft. 6-in. basket handle section concrete storm water drain in neighborhood of Liberty Heights Ave. and Western Maryland Ry.; plans, etc., at office of Bernard J. Crozier, Highway Engr.

Mo., Columbia—City let contract to Grace Barkwell to construct sewers in Dist. No. 51; let contract to Clyde Stewart for sewers in Dist. No. 52 and 56; total cost \$20,000.

Mo., St. Louis—Details under Land Developments.

Mo., St. Louis—City, opened bids for sewer construction; Blackburn-Crean Construction Co., lowest bidder for constructing Ohio Ave. sewer lateral No. 26; Hogan Construction Co. lowest bidder for Harlan Creek sewer Lateral No. 22.

Mo., Springfield—City will improve storm sewers, repair and widening streets, construct viaducts, etc.; will probably vote on bonds. Address The Mayor.

Mo., Trenton—City is receiving bids for constructing sanitary sewers in Dist. No. 26, 27 and 28. Address The Mayor.

N. C., Kings Mountain—Details under Water Works.

N. C., Spruce Pine—City let contract to Fiske Carter Construction Co., Greenville, S. C., to install complete sewer system.

Okla., Holdenville—Details under Water Works.

S. C., Greenville—Details under Water Works.

Tenn., Sweetwater—Details under Road and Street Construction.

Tex., Corsicana—Details under Land Developments.

Tex., Hearne—City, W. W. Bivins, Sec., let contract to San Antonio Sewer Pipe Co., 333 Bedell Bldg., San Antonio, Tex., for sewer pipe and specials.

Va., Norfolk—City, opens bids Sept. 17 to furnish labor and materials for constructing sanitary sewer and concrete drain pipe in Brewer St. between City Hall Ave. and Market St.; Walter H. Taylor, 3rd Director of Public Works.

W. Va., Clarksburg—Details under Road and Street Construction.

W. Va., Clarksburg—Details under Land Development.

W. Va., Huntington—City let contract to Richard R. Cook, to construct sewer in Five and One-Half Alley; A. B. Maupin, City Engr. (Lately noted.)

### Telephone Systems

Ala., Mobile—Home Telephone Co. of Alabama, will expend \$200,000 on plant improvements, will remodel and renovate exchange building; is also erecting 20,000 ft. of new cable wire in various parts of city.

Fla., West Palm Beach—Southern Bell Telephone Co., main office Atlanta, Ga. will expend approximately \$39,000 on extensions and improvements to system; work includes additional section of switchboard with 500 multiples and 500 answering jacks, aerial cable on N. Rosemary St., underground conduit extending northward on Olive St.; T. L. Jordan, local Mgr.

Miss., Corinth—Cumberland Telephone & Telegraph Co., Jackson, Miss., acquired Sun Telephone Co.'s plant.

W. Va., Clarksburg—Chesapeake & Potomac Telephone Co., will install \$14,875 telephone repeater; equipment to be furnished and installed by the Western Electric Co., 463 West, New York; plans by Company's Engineering Dept.

W. Va., Huntington—Chesapeake & Potomac Telephone Co., main office Baltimore, Md., S. S. Flanagan, Local Mgr. will erect building on 6th ave. between 11th and 12th sts.; 3 story brick and steel with stone trimmings; 80 by 120 ft.; fireproof; steel framework; concrete floors; steel framed windows equipped with closing devices; will install refrigerating system, heating plant and power equipment in basement; building will contain kitchen, dining room with electric refrigerator, etc. (Lately noted.)

### Textile Mills

Ark., Jonesboro—Company has been organized with \$600,000 capital with Herbert J. Bosles, Pres.; C. B. Gregg, Vice-Pres.; C. W. Pittinger, Sec.-Treas.; G. F. Roberts, Mgr., Charlotte, N. C.; will erect mill of 10,000 spindles, develop mill village, etc.

Ga., West Point—Directors of West Point Manufacturing Co. and Lanett Cotton Mills meet September 19 to consider merger of mills, capitalized at \$5,000,000 and \$2,000,000, respectively; plants of former include Langdale, Shawmut, Fairfax and Riverdale mills and West Point Utilization Co., with total of 100,000 spindles, 2313 looms and 86 cards; plant of latter has 83,000 spindles, 1810 broad and 600 narrow looms, and 271 cards.

N. C., Burlington—Queen Anne Textile Co., lately noted incorporated with \$1,000,000 capital, organized with W. H. Morton, Pres., Adams, Mass.; R. N. Cooke, Sec., Graham; has building and will remodel for manufacture of fancy dress goods; will install 100 six by one and four by four 30 harness Doby looms with 46½ reed space.

N. C., Spindale—Spinners Process Co. increased capital to \$600,000.

S. C., Chester—Lockwood, Greene & Co., 24 Federal St., Boston, Mass., acquired group of cotton mills in South Carolina controlled by Col. Leroy Springs, of Lancaster, S. C., and identified interests; mills include Eureka Mills and Springstein Mill at Chester; Fort Mill Mfg. Co., Fort Mill; Lancaster Cotton Mill, Lancaster; total spindlage about 225,000; will merge plants with the four mills recently purchased from Pelzer Mfg. Co., Pelzer, S. C. and operate under one management; name of new organization and capital stock has not been announced.

S. C., Lando—The Manette Mills increased capital from \$40,000 to \$400,000.

Tenn., Chattanooga—Wardlaw Hosiery Mills, incorporated by Felix G. Miller, Geo. B. Smith, Charles F. Hood and others; increased capital from \$100,000 to \$150,000.

(Lately noted acquiring the Wardlaw Hosiery Mills.)

Tex., Marble Falls—Marble Falls Textile Co., organized to build 10,000 spindle cotton mill; M. H. Merrill & Co., Engrs., 50 State St., Boston, Mass.

Tex., New Braunfels—Planters & Merchants Mills, have been granted permission to construct water power dam across Gaudalupe River at company's cotton mill.

### Water Works

Fla., Miami—Details under Land Developments.

Ga., Macon—Board of Water Commrs. receives bids until Oct. 16 to construct and install 10,000,000 gal. raw water pump at pumping station; cost \$24,000.

Miss., Hazlehurst—Details under Electric Light and Power Plants.

Miss., Leland—City, H. T. Mathis, Mayor, will receive bids until Oct. 2 to furnish f. o. b. Leland, and for laying following pipe, hydrants and valves for water main extension; Standard hub and spigot, Class B, cast iron pipe or cast iron pipe manufactured by Centrifugal process or other pipe of equal quality and strength.

Item A—100 ft. of 12-in., 2000 ft. of 10-in., 540 ft. of 8-in. and 11,000 ft. of 6-in. pipe, 10 tons of specials.

Item B—Twenty-two 6-in. and two 4-in. hydrants, three 10-in., ten 6-in., and four 4-in. valves and boxes.

Item C—For laying the above quantity of pipe including placing of hydrants, valves and boxes, R. A. Phillips, Supt. Water and Light Systems; Massena L. Culley, Conslt. Engr., Jackson, Miss.

Mo., Jasper—City let contract at \$31,927 to E. K. Ladd Construction Co., to construct water works system.

Mo., Joplin—City will vote in October on granting 25 yr. water franchise to Joplin Water Works Co. Address The Mayor.

Mo., St. Louis—Details under Land Developments.

N. C., Kings Mountain—City, P. D. Hernon, Mayor, receives bids until Oct. 9 for water works and sewerage extension; work includes, reinforced concrete sewage sedimentation tank, furnishing and laying 2 miles of water mains, 6 and 8-in. in diam., with accessories; building 5 miles of sewers and furnishing 8, 10 and 12-in. sewer pipe; principal quantities are 72 lin. ft. of 14-in., 5602 lin. ft. of 8-in., 4725 lin. ft. of 6-in. water mains; 21560 lin. ft. of 8-in., 1980 lin. ft. of 10-in., 2840 lin. ft. of 12-in. sewer mains; 48 valves and 27 hydrants; plans etc. with Town Clerk and at office of The Ludlow Engineers, Engrs., Winston Salem, N. C.

Okla., Holdenville—City will vote Sept. 18 on \$85,000 bonds for water and sewer extension, purchase of city park, etc. Address The Mayor.

Okla., Maysville—City let contract at \$33,833.50 to Gibson & Mitchell, Pauls Valley, Okla., to construct water works system in Washita Valley.

S. C., Greenville—Union Bleachery & Finishing Co. let contract to Fiske, Carter Construction Co., Greenville, to install complete water and sewerage system in village; J. E. Sirrine & Co., Engrs., Greenville. (Lately noted.)

S. C., Spartanburg—Details under Land Developments.

Tex., Austin—City will postpone election to vote on bonds for water filtration plant and incinerator. Address The Mayor. (Lately noted to vote Oct. 15.)

Tex., Corsicana—Details under Land Developments.

Tex., Edinburg—Board of Directors of Hidalgo County Water Improvement Dist. No. 4, receives bids until Oct. 1 to furnish necessary materials, equipment and labor to construct certain improvements as follows: Reconstructing South main canal from river pumping plant to settling basin, distance 1 mi.

Reconstructing north main canal from relief pump site to east main canal diversion, 7½ mi.

Reconstructing east main canal from headgate to St. Louis, Brownsville & Mexico Ry. 6½ mi.

Reconstructing east main canal St. Louis, Brownsville & Mexico Ry. to end of canal, 3 mi.

Reconstructing south branch of the east main canal, from headgate to station 35, ¼ mi.

Reconstructing north main from Sta. 350 to Sta. 410, 1 mi.

Reconstructing lateral M from its headgate to Sta. 246 5 mi.

For clearing right of way along above canals, state price per acre.

For constructing check gates and bridges in concrete and bridges in wood in the above canal.

For removal of old structures in the above canal.

For riprapping levees of canals above and floor and levees below checks and gates; specification on file or with Wm. L. Rockwell, Supv. Engr.

Tex., Ennis—City voted \$50,000 bonds to build dam across Waxahachie Creek for new water supply. Address The Mayor. (Lately noted.)

Tex., Kenedy—City, John W. Thames, Mayor, will expend \$30,000 in improvements to water works system, and erection of 100,000 gal. capacity tank and reservoir. (See Machinery Wanted—Water Works Equipment.)

Tex., Lampasas—City Sec. receives bids until Oct. 1 on materials and laying 18,000 ft. of water mains.

Tex., McAllen—Valley Electric & Ice Co. let contract to E. L. Calhoun of Pharr, Tex., to construct reservoir to supply city with river water; will install complete filtration and purifying plant with pump house and electrically operated pump for transferring water from reservoir to mains.

Va., Richmond—City contemplates voting on \$1,500,000 bonds for water and gas extension. Address Mayor Ainslie.

W. Va., Clarksburg—Details under Land Developments.

W. Va., Keyser—City will install filtration plant in connection with water works system; \$175,000 available. Address The Mayor.

### Woodworking Plants

Md., Baltimore—Wm. Knabe & Co., Charles P. Vogt, Mgr., Eutaw and West Sts., will replace some of its buildings with modern structures; also erect additional buildings; plans to double its present space; construction to begin early next year.

Mo., Valley Park P. O.—St. Louis—Mera-mec Canoe Co., Inc., (lately noted incorporated, capital \$15,000), organized with J. H. Wright, Pres.-Mgr.; D. P. Wright, Sec.-Treas.; will not build at present; in market for rebuilt or second-hand self-feed drum sander. (See Machinery Wanted—Sander (Self Feed Drum).)

Okla., Walters—Harley-Pearson Furniture



Co., capital \$15,000, incorporated by Joe W. Harley, R. L. Pearson and others.

Tenn., Memphis—Hardwood Specialties—Charles O. Cox, Inc., Box 428 (lately noted incorporated, capital \$40,000) organized with Chas. O. Cox, Pres.-Treas.; R. L. Bartels, Sec.; J. R. Del Vecchio, Mgr.; has under construction building with 22,500 ft. of floor space, cost \$11,600; has purchased \$15,000 woodworking machinery; will manufacture golf and shuttle blocks and other hardwood specialties; J. W. Wilson, Archt., Memphis.

## FIRE DAMAGE

Ala., Carbon Hill—S. H. Karrh's store; Frank Sides's store; Frank Welkos's store; S. R. Fowler's store; R. H. Gibson's restaurant and store; loss \$38,000.

Ala., Gadsden—Gadsden Cooperage Co.'s dry kiln and steam plant; loss \$40,000.

Ala., Georgiana—Magnolia Hotel, Cook's Grocery Store, Taylor's Cafe, and J. S. Deaton's blacksmith shop.

Fla., Brooksville—C. M. Emerson & Co.'s saw and planing mill; loss not estimated.

Fla., Miami—Indiana Truck Corporation's garage at 316 S. Miami Ave.; estimated loss \$50,000.

Fla., West Palm Beach—Jossey Drug Co.'s store, 369 Clematis Ave.; loss \$12,000.

Ga., Atlanta—Atlanta Southern Association Baseball Club's club house, grand stands and bleachers; loss from \$50,000 to \$100,000.

La., Monroe—Lieber Apartments, Washington and North Fourth Sts., loss about \$3000.

Md., Baltimore—White Oak Farm Dairy, Old Frederick Rd. and McCurley St., loss \$35,000; William C. Litza, Owner.

Md., Hagerstown—R. K. Small's residence; loss \$10,000.

Miss., Crystal Springs—Frank Ford's residence, 4 miles east of Crystal Springs.

Mo., Cape Girardeau—Union Door & Sash Co.'s plant, loss \$100,000; Forest Lumber Co.'s plant, loss \$10,000; Union Lumber & Mfg. Co.'s plant, loss \$20,000.

N. C., Azalea—Azalea Woodworking Plant; loss not estimated.

N. C., Henderson—Henderson Veneer & Mfg. Co.'s plant; estimated loss \$45,000.

Okla., Dewey—Clark Lumber Co.'s buildings; loss \$40,000; main office at Kansas City, Mo.

Okla., Miami—Gaines Bros. barn at Narcissa; loss \$9000.

S. C., Greenville—Chas. W. Nobles' residence near old country club.

S. C., Manning—Lumber mill of the Turbeville Mill Co.; loss \$25,000.

S. C., Union—Union Iron Works plant, operated by J. M. Morse; loss \$17,500.

Tenn., Watertown—Ollie Luck's residence, occupied by Fred Luck; loss \$7000.

Tex., Decatur—W. H. Miles' residence in Wise County, 9 miles S. E. of Decatur; loss \$10,000.

Tex., Lawrence—Cotton gin, seed and cotton storage houses owned jointly by Forney and Terrell Cotton Oil Co.; loss \$25,000.

Tex., Powell—L. D. Holmes' cotton gin; loss \$15,000.

Va., Martinsville—Finishing room of Virginia Furniture Co.; estimated loss \$30,000.

H. J. Klutho, Archt., 401 St. James Bldg., Jacksonville; bids opened about Oct. 8. (Lately noted.)

Fla., Miami—Mrs. Arnela B. Hahn, 22 N. E. 1st St., will erect \$90,000 building, N. E. 1st Ave. and 2nd St.; 2 stories; 100x95 ft.; reinforced concrete frame; tile curtain walls; 8 stores on first floor, 32 offices above; ultimate plans call for 8-story structure; Pfeiffer & O'Reilly, Archts., Miami.

La., New Orleans—Weiss & Dreyfous, Inc., Archts., Maison Blanche Bldg., prepared plans to remodel Medical Bldg., Baronne and Canal Sts.; bids opened Sept. 8.

Miss., Biloxi—Peoples Bank, O. G. Swetman, Cashr., will alter bank building; metal ceilings; vaults; wood, tile and concrete floors; lighting fixtures; install new heating plant; W. T. Harkness, Archt., Biloxi.

Miss., Jackson—Lamar Life Insurance Co., C. W. Welty, Vice-Pres., will receive bids until Oct. 1 for office building on old Hotel Norvell site; alternate bids for 10 and 12 stories; reinforced concrete, steel, stone, brick and terra cotta; first 2 floors, 82x120 ft., balance, 60x120 ft.; about 200 offices; plans from Sanguinet, Staats & Hedrick, Fort Worth, Tex., and N. W. Overstreet, Jackson, Asso. Archts. (Lately noted.)

N. C., Edenton—King Mutual Life Insurance Co., W. H. A. Stalling, Pres., will erect office building. (See Mch. Wanted—Office Supplies.)

## Churches

Ala., Ensley—Birmingham Dist. Baptist Assn. will erect Italian mission, to be under direction of Mr. and Mrs. Jerome S. D'Arta.

Ark., Mansfield—Methodist Church, Rev. R. T. Cribb, Pastor, will erect \$20,000 brick building; Sunday school rooms, etc.

D. C., Washington—National Cathedral Foundation, 1417 K St., N. W., is erecting Cathedral of Saints Peter and Paul on Washington Cathedral on Mount St. Alban; Bethlehem Chapel completed; total cost about \$10,000,000; Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass. (Previously noted.)

Fla., Fernandina—First M. E. Church, South, E. W. Bailey, Sec., Bldg. Comm., P. O. Box 438, will erect \$25,000 building, Center and 6th Sts., lately noted; 95x52 ft.; brick, stucco finish; metal or tile roof; pine or oak and concrete floors; metal ceilings; plaster board; metal doors; ornamental terra cotta; rolling partitions; wire glass; electric lights; plans probably by Rev. J. A. Baylor, 1115 Fourth Ave., Louisville, Ky., Archt., Board of Extension of M. E. Church, South; John R. Mann, Fernandina, will be awarded contract. Address Mr. Bailey. (See Mch. Wanted—Heating Plant (Steam).)

Fla., Orlando—Methodist Church will erect \$50,000 Christian Education building; 3 stories; 102x55 ft.; brick; accommodate 1200; 39 classrooms; auditorium to seat 400; gymnasium, shower baths, etc.; roof garden; F. H. Trimble, Archt., Orlando.

Ky., Lexington—Felix Memorial Baptist Church, Rev. Gordon B. Crawford, Pastor, is erecting \$60,000 building; brick; Bedford stone trim; green tile roof.

Mo., Columbia—Broadway Baptist Church plans to erect \$35,000 Sunday school building; 2 stories; brick. Address The Pastor.

Mo., Jamesport—Methodist Episcopal Church, South, plans to erect \$20,000 building; Sunday school rooms, kitchen, etc., in basement. Address The Pastor.

Mo., La Plata—Community Presbyterian

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

La., Shreveport—Benevolent Protective Order of Elks, Lodge No. 122, S. E. Davis, Sec., will erect 8-story annex; cost \$500,000; 160x60 ft.; reinforced concrete, face brick, stone and terra cotta; cement, terrazzo, wood and tile floors; Barrett specification roof; concrete and tile foundation; roof garden, restaurant, swimming pool, gymnasium, club and lodge rooms and bachelor apartments; Edward F. Neild and C. W. King, Asso. Archts., Shreveport; bids opened Sept. 19; following contractors estimating; G. & G. Construction Co.; W. H. Werner; Central Contracting Co., all Shreveport; Underwood Constr. Co., New Orleans; Buchanan & Beene, care Cedar Grove School, Cedar Grove, La.; Westlake Constr. Co., St. Louis, Mo.; Stewart-McGehee Constr. Co.; Ault & Burden; both Little Rock, Ark. (Lately noted.)

Okla., Ponca City—Masonic Lodge No. 82, A. F. & A. M., will erect 6-story bank, office and lodge building; 50x140 ft.; reinforced concrete, brick and cut stone; composition roof; cement, hardwood, terazzo and marble floors; hollow fireproof and interior tile; vaults; mail chutes; vault lights; ventilators; ornamental terra cotta; rolling partitions; steel sash and trim; wire glass; steam heat; electric passenger elevator; Smith & Senter, Archts., Okmulgee; bids opened Sept. 27 at Ponca City. Address Archts. (Previously noted.)

Tex., San Antonio—San Antonio Lodge No. 1097, A. F. & A. M., will erect \$40,000 build-

ing; semi-fireproof; 60x111 ft., annex 40x50 ft.; 2 stories; brick and concrete; adamant roof used for roof garden; wood, tile and linoleum floors; provision for future elevator; install dumb waiter; first floor for business purposes, lodge rooms above; L. Harrington Co., Archts., San Antonio. (Lately noted.)

Tex., Wills Point—Ancient Free and Accepted Masons will erect \$20,000 lodge building; 2 stories; 50x90 ft.; brick; pitch and gravel roof; concrete and pine floors; metal ceilings; plaster board; electric lights, \$500; Scott & McKnight, Contrs., Wills Point. (Lately noted.)

Va., Danville—Bethseda Lodge, I. O. O. F., will erect \$25,000 lodge building.

Va., Roanoke—Roanoke Council No. 562, K. of C., Wm. J. Kelly, Grand Knight, will erect lodge building; accommodate 400; gymnasium, swimming pool, etc.

#### Bank and Office

Fla., Jacksonville—Florida Baptist Convention, Inc., will erect \$125,000 store and office building, Church St.; basement and mezzanine for Witness Press, present location, 635 W. Forsyth St., Dr. J. W. Mitchell, Editor and Mgr.; 2 stores on first floor, offices on second; reinforced concrete, brick, and hollow fireproof tile; concrete, wood, marble and tile floors; 5-ply tar and gravel roof; interior tile; vaults; mail chutes; ventilators; ornamental artificial stone fenestral; steel sash and trim; wire glass; foundation and columns to carry 8 stories;



Church will erect \$40,000 building. Address The Pastor.

Mo., Moberly — Zion's Lutheran Church, 809 W. Reed St., will erect \$12,000 building, 701 W. End Place; 32x62 ft.; brick; oak floors; asbestos roof; hollow fireproof tile; plaster board; Ludwig Abt, Archt., Moberly; bids opened about Feb. 1, 1924. (Lately noted.)

Mo., St. Joseph—King Hill Baptist Church is considering erecting building. Address The Pastor.

N. C., Hendersonville—Methodist Episcopal Church will erect \$80,000 building, Church St. and 6th Ave.; 1 and 2 stories and basement; social room to seat 400 with stage and dressing rooms, kitchen, furnace room, etc., in basement; auditorium to seat 375, with balcony seating 302, on main floor. Address The Pastor.

Okla., Oklahoma City—Immanuel Baptist Church, N. S. Sherman, Jr., Chmn., Bldg. Comm., will complete brick building, 12th St. and Geary Ave., for which foundation was laid last year; plans drawn.

S. C., Union—First Presbyterian Church will erect Sunday school building; cost about \$30,000; Casey & Fant, Archts., Anderson, S. C. (Previously noted.)

Tex., Brownwood—First Baptist Church. Rev. Mr. Wilkes, Pastor, will erect 2-story and basement building; 116x68x87 ft.; brick and hollow tile; face brick; stone trim; tile roof; concrete floors; hot air heat; electric wiring; accommodate 700; cost \$80,000; Sanguinet, Staats & Hedrick, Archts., Fort Worth; plans out for figures about Oct. 15. (Previously noted to open bids June 10.)

Tex., Dallas—Central Christian Church will receive bids until Sept. 25 to remodel interior of building. Patterson and St. Paul Aves.; new decorations, lighting and ventilation; cost \$50,000; Clarence Bulger, Archt., Dallas.

Tex., Goose Creek—Presbyterian Church, Rev. W. G. Huie, Pastor, plans to erect bungalow type building.

Va., Galax—Methodist Episcopal Church, South, Rev. Robt. L. Evans, Pastor, will erect \$30,000 brick building; about 70x84 ft.; architect not selected; bids opened in January. (Lately noted.)

### City and County

Fla., Tallahassee — Courthouse — Leon County Comms. rejected bids to alter and erect additions to courthouse and will call election on bonds to erect \$175,000 building. (Lately noted.)

Mo., Sedalia—Courthouse—County Court of Pettis County will receive bids until Oct. 4 for furnishing all labor and material for construction of courthouse; fireproof; 3 stories above grade; 97.8x135 ft.; reinforced concrete, structural steel, brick and hollow fireproof tile, faced with stone; fireproof and concrete floors; concrete foundation; fireproof roof; interior tile; vaults; metal doors; ventilators; steel sash and trim; drawings and specifications on file with Clk. of County Court, Sedalia, at office of W. E. Hulse & Co., Archts., Hutchinson, Kan., and at Western Contractor, Kansas City, Mo., American Contractor, Chicago, Ill. Builders' Industrial Bureau, St. Joseph, Mo., and E. W. Dodge Co., St. Louis, Mo. (Lately noted.)

N. C., Durham—Home—Durham County, C. M. Euler, Mgr., will erect fireproof or semi-fireproof home; cost about \$100,000; G. Murray Nelson, Archt., Raleigh and Durham; plans in preliminary state. (Lately noted.)

N. C., Greensboro—City Hall—City, Claude

Kiser, Mayor, will erect \$300,000 city hall, N. Elm and Gaston Sts.; architect not selected. (Lately noted.)

N. C., Hamlet—Municipal Building—City will erect \$35,000 to \$40,000 municipal building, Main and Champlain Sts.; Chas. C. Hook, Archt., Charlotte.

S. C., Abbeville—Municipal Building—City, Mayor Mars, plans to erect building for fire dept. and Abbeville Water & Electric Plant offices.

Tex., Dallas—Fire Stations—City, Louis S. Turley, Fire and Police Commr., will erect fire station in North Dallas and one in South Dallas, in addition to 3 lately noted for which plans have been prepared by Horace M. Bernet, Dallas.

Tex., Franklin—Courthouse — Robertson County Comms. Court will receive bids until Oct. 3 at office Joe Reid, County Judge, for wrecking and clearing away, remodeling and rebuilding courthouse; brick, stone and reinforced concrete; fireproof; 82x65 ft.; plans and specifications from Hix McCanless, Archt., Ennis and Judge Reid, Franklin. (Lately noted.)

### Dwellings

Ark., Bentonville—Chas. D. Haney, Prop., elegancy Glen, will erect 25 summer cottages.

Ark., Jonesboro—E. H. Hill will erect brick veneer residence on Church St.; 7 rooms; plumbing shop in basement; H. A. Lesmeister, Archt., Jonesboro.

Ark., Pine Bluff—Lloyd J. McDaniel, Asst. Mgr., Standard Lbr. Co., is erecting bungalow at 23rd and Oak St.; Riley Feed Mfg. Co., brick and cement plaster; Standard Lbr. Co., lumber and millwork.

Ark., Pine Bluff—Edgar Shepherd will erect residence, Cherry and 36th Sts., Eden Park.

Fla., St. Petersburg—Walton P. Grey, 1045 14th Ave., St. Petersburg, will erect dwelling at St. Petersburg and 1 at Pasadena; cost \$16,000 each; 52x38 ft.; brick and hollow fireproof tile, stucco finish; Spanish tile roofs; concrete, hardwood, tile and pine floors; interior tile; ornamental terra cotta; Edgar Ferdon, Archt., St. Petersburg; owner builds. (Lately noted in part.)

Ga., Macon—F. S. Perry will erect residence on Hines Terrace near Vineville Ave.

Ky., Louisville—Chas. C. Terry, 315 West Hill, will erect \$12,000 residence, 1206 Eastern Parkway.

La., New Orleans—Mrs. L. W. Holmes will alter and erect additions to residence, 1820 Peters Ave.; W. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans.

La., New Orleans—Mrs. Lydia Wickliffe will alter residence; W. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans.

Md., Baltimore—Geo. R. Morris Organization, Morris Bldg., will erect 2 dwellings and garages, 3900-02 E. Hadley, and 2 at 3905-07 W. Hadley Square; 3 stories; frame; total cost \$43,000.

Md., Baltimore—Lindsay C. Spencer, 633 Title Bldg., will erect 3-story bungalow, east side Warrenford Rd.; opposite 3035 Overhill Rd.; cost about \$18,000.

Md., Baltimore—Daniel Shipley, 1104 W. 36th St., will erect 10 dwellings, 1112-20 Falls Rd.; 2 stories; 14x32x25 ft.; ordinary masonry; pine and hardwood floors; Ruberoid roof; hollow fireproof tile; mail boxes; total cost \$25,000; Fredk. E. Beall, Archt., 343 St. Paul St., Baltimore; owner builds and installs heating plants. (Lately noted.)

Md., Baltimore—J. W. Apsley, 29 W. Hamilton Ave., will erect two 1½-story, con-

crete bungalows, west side Belle Vista Ave., near Hamilton Ave.; total cost \$12,000.

Md., Baltimore—Geo. A. Cook, 221 University Parkway, will erect 11 two-story, brick dwellings, N. W. cor. Henderson and Barclay Sts., and 15 at S. W. cor.; all 15x44 ft.; slag roofs; total cost \$50,000; W. B. Gerwig, Archt., 1028 N. Fulton Ave., Baltimore; owner builds.

Md., Baltimore—Milburn Realty Co., 807 Lexington Bldg., will erect 10 two-story, brick dwellings on Eastern Ave. and 18th St.; total cost \$25,000.

Md., Baltimore—City & Suburban Realty Co., Harford Rd. and Hamilton Ave., will erect 5 frame bungalows, west side Evergreen Ave., west of Elmwood Ave., 1, west side Elmwood Ave., north of Evergreen, and 1, east side Sefton Ave., south of Glenmore Ave.; 1½ stories; total cost \$20,000.

Miss., Brookhaven—J. C. Jenkins will erect brick bungalow, Chippewa St.

Miss., Brookhaven—Alex Sinclair will erect residence on Meadville Rd.

Miss., Hattiesburg—B. D. Moore will erect hollow tile and stucco residence, 4th Ave. and Mamie St.; 70x48 ft.; quartered white oak floors; tile roof; interior tile; ornamental terra cotta; hot air heat; P. J. Krouse, Archt., Meridian; construction by day work under supervision of A. S. Woods. (Lately noted.)

Mo., Boonville—G. F. Beller and Albert Myer will erect number of dwellings on 3rd St.

Mo., Independence—N. B. Cagley will erect 7-room stucco residence, Vaile Park addition.

Mo., St. Louis—Leo K. Milberger, 5212 Murdock St., will erect 3 one-story dwellings, 4024-28-32 Oregon St.; total cost \$10,500; 25x42 ft.; rub shingle roofs; hot air furnaces; plans and construction by owner.

Mo., St. Louis—Jos. W. White purchased 10-acre tract, north side W. Park Ave., west of Pennsylvania Ave., Richmond Heights, and plans to erect 25 dwellings.

Mo., St. Louis—May Bldg. & Investment Co., 808 Chestnut St., will erect \$10,000 tenement house, 4974 Park View; 2 stories; 34x50 ft.; composition roof; 4 steam furnaces; Oliver J. Popp, Archt., 320-21 Odd Fellows Bldg., St. Louis; owner builds.

Mo., Springfield—J. F. Sawyer will erect two \$6000 dwellings.

N. C., Durham—Mr. Newsom will erect residence; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham; will call for bids upon completion of plans.

N. C., Greensboro—C. G. Crevensten will erect two \$5000 dwellings on Olive St.; 6 rooms each.

S. C., Aiken—Flint Hendrix will erect residence on Newberry St., to be occupied by Mrs. McCarthy.

Tenn., Nashville—Robinson Realty Co. will erect 6 brick dwellings, 1500 block Villa Place; cost \$5000 each.

Tex., Austin—John C. Ross will erect \$12,000 residence, Enfield Addition; 2 stories; stucco over frame; wood shingle roof; edge grain pine floors; hot air heat. \$500; Gleescke & Harris, Archts., 520-21 Littlefield Bldg., Austin; bids opened about Oct. 12. Address Archts. (Lately noted.)

Tex., Corsicana—J. B. Bailey is erecting cottage, N. 13th St., north of Post Oak Creek, and will erect 2 additional ones.

Tex., El Paso—Martin Sweeney will erect \$20,000 tenement house, 7th and Ochoa Sts.; 2 stories; brick.

Tex., El Paso—W. L. Tooley will erect \$20,000 adobe residence, block 112, Austin Terrace; 12 rooms.

Tex., Port Arthur—Dr. A. M. McAfee will erect \$20,000 residence; 2 stories; brick veneer; P. G. Silber & Co., Archts., 331 Bell Bldg., San Antonio.

Tex., San Antonio—Dr. J. H. Reagan will erect frame and stucco residence, W. Woodlawn Ave., Beacon Hills; cost about \$10,000; 6 rooms; 2 stories; slate surfaced composition shingle roof; concrete, oak, composition and pine floors; Arcola system of heat; Will N. Noonan, Archt., 240 Moore Bldg., San Antonio; bids opened Sept. 16. (Lately noted.)

Va., Richmond—A. J. Davis, 2914 Floyd St., will erect 2 brick dwellings, 3010-12 Floyd Ave.; 22x31x31 ft.; 2 stories; brick foundations; wood floors; tin roof; hot water heat; total cost \$10,000; plans and construction by owner.

Va., Richmond—A. F. Newman, 616 N. 34th St., will erect 3 frame dwellings, 1206 Dickenson St.; 22x32x25 ft.; 2 stories; brick foundations; tin roofs; wood floors; total cost about \$10,000; owner builds.

Va., Richmond—Mrs. Josephine E. Houston and Miss Alice E. Dooley, 416 W. Franklin St., will remodel residence; cost \$10,000; Otis passenger elevator; Lee & Lee Archts., 918 E. Main St.; Johnson-Longworth Heating Co., hot water heat; all Richmond; all sub-contracts let. (Lately noted under Hotels and Apartments.)

Va., Richmond—B. H. Melton, Washington, D. C., will erect 5 two-story, brick dwellings, 3000 block Park Ave., and 5 in 3400 block Elmwood Aves.; total cost \$74,000.

W. Va., Huntington—G. M. Mossman, 717 Fifth Ave., will erect \$20,000 residence, South Boulevard and 3rd St.; 75x35 ft.; brick, concrete and hollow fireproof tile; oak floors; green Spanish tile roof; interior tile; hot air heat; city electric current; L. J. Dean, Archt., Huntington.

W. Va., Martinsburg—Merle Cox plans to erect 25 additional dwellings this year.

### Government and State

Ga., Dawson—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will receive bids until Oct. 17 for construction of 1-story, brick and tile none-fireproof post office building; approximately 62x64 ft.; drawings and specifications from Custodian at site or from office Supervising Archt.

Md., Annapolis—Officers' Quarters—United States Naval Academy will erect 10 bungalows for officers' quarters lately noted; cost about \$8000 each; 50x30 ft.; frame and concrete block; asphalt shingle roof; concrete and wood floors; construction by Navy Yard Labor. Address Superintendent. (See Mch. Wanted—Building Material; Ventilators.)

W. Va., Keyser—Post Office—E. M. Reynolds will erect building on Davis St.; first floor to be leased to Government for 10 years; apartments above.

### Hospitals, Sanitariums, Etc.

Ark., North Little Rock—United States Veterans Bureau, Frank T. Hines, Director, will receive bids until Oct. 16 at office of Quartermaster General, 2306 Munitions Bldg., Washington, D. C. for additional buildings to U. S. Veterans Hospital No. 78; work includes construction of disturbed patients, recreation and 2 continued treatment buildings, tuberculosis cottage, male attendants' quarters and additions to nurses' quarters and to kitchen and mess, together with roads, water, sewer and electric lines

serving same; buildings to be fireproof; brick, tile and reinforced concrete, complete with all fixed plumbing, heating and lighting equipment; plans and specifications from Quartermaster General, 2306 Munitions Bldg., Washington, or Constr. Quartermaster at site, and on exhibition at offices of Quartermaster Supply Officers, 1819 W. Pershing Rd., Chicago, Ill., 2nd and Arsenal Sts., St. Louis, Mo., and Poland and Dauphine Sts., New Orleans, La.

D. C., Washington—U. S. Veterans Bureau, Frank T. Hines, Director, Room No. 701, Arlington Bldg., will receive bids until Oct. 4 for construction of recreation building and alteration and addition to garage for attendants' quarters at U. S. Veterans Hospital No. 32, Mt. Alto, Washington, D. C.; 77x44 ft.; 2 stories and basement; hollow tile; fireproof, concrete, wood and mastic finish floors; slate and tin roof; 2-pipe steam heat; extend present electric lighting system; work includes excavation and grading, concrete work, stucco, plaster, carpentry, painting and glazing, wrought iron work, plumbing, heating and electric work; drawings and specifications from Maintenance and Operation Division, Room No. 791, Arlington Bldg., and for inspection, at office Medical Officer in Charge, at site. (Lately noted.)

La., Carville—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will receive bids until Oct. 16 for construction (except mechanical equipment) of additional buildings, including patients' cottages, infirmary, recreation building, kitchen and mess hall, of terra cotta and stucco construction, and store house and officers' quarters of wood, for National Home for Lepers; drawings and specifications from office Supervising Archt.; will also receive bids until same date for construction of power house. (See Machinery Wanted—Mechanical Equipment.)

Miss., Hattiesburg—South Mississippi Infirmary, Dr. W. W. Crawford, Owner, deferred awarding contract until spring to erect hospital building; Bem Price, Archt., Jefferson County Bank Bldg., Birmingham, Ala. (Previously noted.)

N. C., Durham—City will erect hospital; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham.

N. C., Winston-Salem—Lawrence Hospital, Dr. C. S. Lawrence, owner, will erect \$40,000 addition facing Oak St.; 3 stories; rooms for 25 beds; C. Gilbert Humphries, Archt., Winston-Salem; construction to start Oct. 1.

Tex., Houston—City, O. F. Holcombe, Mayor, and Harris County, H. L. Washburn, County Auditor, rejected bids to erect City-County Hospital; plans by W. A. Dowdy, City Archt., Room 207, City Hall; new bids opened Sept. 20. (Lately noted.)

Tex., Wichita Falls—State Board of Control, S. B. Cowell, Chmn., Austin, plans to erect \$30,000 dormitory for employees at Northwest Texas Hospital.

### Hotels and Apartments

Fla., Miami—Hermitage Hotel will erect 1-story addition to hotel; cost \$17,500.

Fla., New Valparaiso—Valparaiso Realty Co., Jas. E. Pluo, Pres., will erect hotel; cost \$100,000; 2 stories; 140x150 ft.; frame and stucco; built-up roof; tile, concrete and hardwood floors; interior tile; plaster board; ventilators; steam heat; bids opened Sept. 12; Walker Wimis, Archt., Pensacola. (Previously noted.)

Ga., Atlanta—Pringle & Smith have prepared plans for \$800,000 bachelor apartment-club building, 583 Peachtree St.; Adam type; lot 100x200 ft.; 8 stories; red-brown brick

with limestone trim; swimming pool, gymnasium, locker, shower and rub rooms, boiler room and mechanical plant in basement; elevators, private and 52x66-ft. main dining rooms, etc., and 4 shops on first floor; 27x57-ft. lounge room, 2 stories high, billiard, telephone, reading rooms, and 17 bedrooms with private baths and closets on second floor; bedrooms and apartment suites on upper floors.

Ga., Louisville—Louisville Hotel Corporation, R. G. Price, Sec., will receive bids until Oct. 4 to erect hotel; cost \$50,000; plans and specifications at office Willis Irvin, Archt., Lamar Bldg., Augusta; R. G. Price, Sec., Louisville; Savannah and Atlanta Builder's Exchanges; obtainable at office of Archt. (Previously noted.)

Ky., Ashland—Buckingham Hotel Co., G. A. Nash, Sec., will erect hotel; cost \$1,060,000; 200x142 ft.; 9 stories; 251 rooms; basement for refrigerating and heating plants, laundry, storage rooms, billiard and dining room, kitchen, coffee shop, 10 stores, etc.; mezzanine floor for ball and banquet room, writing rooms, men's and women's toilets and rest rooms; above floors contain sleeping rooms; steel and reinforced concrete; J. R. Gieske, Archt., Huntington, W. Va. Address Bankers Bond Co., Louisville, Ky. (Lately noted.)

La., New Orleans—Max Hochfelder will remodel building for 4 apartments, Carondelet and Second Streets; cost \$15,000; Weiss & Dreyfus, Inc. Archts., Maison Blanche Bldg., New Orleans.

Md., Baltimore—Myer Abramson will erect 3 story brick apartment, 101 West Callow Ave.; cost \$15,000.

Miss., Bay St. Louis—Bay Hotel Co., H. S. Weston, Pres., Logtown, Miss., will erect tourists hotel; 2 stories; fireproof; brick and stucco; 50 rooms; W. T. Nolan, Archt., New Orleans; C. A. D. Bailey & Co., lowest bidders at \$120,500; American P. & H. Co., New Orleans, lowest bidder for mechanical equipment at \$23,298. (Previously noted.)

N. C., Charlotte—The Mecklenburg Farms Co., F. C. Abbott, Pres., plans to erect apartment hotel; also remodel building for apartments.

N. C., Fayetteville—Willard G. Rogers, Charlotte, and E. S. Dixon, Fayetteville, prepared plans for \$250,000 hotel for which bids are to be received until Oct. 8; 8 stories, basement and roof garden; steel frame; brick, stone, hollow fireproof and interior tile; ornamental terra cotta; hardwood and concrete floors; metal doors; wire glass; mail chutes; ventilators; steel sash and trim; V. W. Breeze, Engr., Charlotte. (Previously noted.)

N. C., New Bern—Coplon Co., Chas. Coplon, Pres., will erect brick building, Craven St.; 5 stores on 1st floor; apartments on 2nd and 3rd floors; contract about Oct. 1.

S. C., Greenville—Silas B. Trowbridge, Archt., Atlanta, Ga., is preparing plans for apartment on North Main St.

Tenn., Paris—P. C. Ford will renovate interior of Caldwell Hotel.

Tex., Dallas—R. R. Whatley, 1006 Oak Cliff Blvd., will erect 2-story brick veneer apartment.

Va., Ashland—Jno. Taylor will erect addition of 18 rooms to Taylor's Telegraph Tavern.

Va., Richmond—J. Thornton Davis will construct three-story brick apartment house, Monument Ave.; cost \$35,000.

Va., Richmond—M. L. Palmore will erect 3-story brick apartment, 2816-18 West Grace St.; cost \$30,000.

Va., Roanoke—Business Extension Corporation plans to erect hotel at Jefferson St.



Va., Roanoke—Business Extension Corporation plans to erect \$100,000 hotel, Jefferson St. and Franklin Road; J. W. Hartmann, Archt., Greensboro, N. C.

### Miscellaneous

Fla., Ocala—Resort—Silver Springs South Beach, Inc., will establish resort and amusement park.

La., Lake Charles—Clubhouse—Coastal Hunting and Fishing Club, Alfred Wettermark, Pres., Alexandria, purchased 6000-acre site, 28 miles southeast of Lake Charles and will erect \$15,000 clubhouse.

La., New Orleans—Restaurant—Nicholas Gentilich will erect building on Durnaine St.; cost \$15,000.

N. C., Raleigh—Clubhouse—Raleigh Capital Club will remodel and refurnish club building, West Martin St.; cost \$25,000; club dining room, private dining rooms, rest rooms, lounge room, public cafe and plumbing.

Tenn., Tullahoma—Clubhouse—Tullahoma Community Club will erect building on Jackson St.

Tex., Fort Worth—Clubhouse—Fort Worth Country Club, Lloyd H. McKee, Pres., does not contemplate erection of clubhouse as lately reported.

Tex., Houston—Art Studio—Houston Conservatory of Music, Clarence Hammond, Pres., will erect building; cost \$125,000; 2 stories and basement; brick; 4 classrooms; 14 private studios; roof garden; 2 galleries to seat 200; Wilson Davis, Archt., Houston. (Lately noted.)

Tex., Houston—Market House—Fred Thompson and Eric Anderson will erect brick house, Hardy and Lorraine Sts.; cost \$32,000.

Tex., San Antonio—Home—Woodmen of the World will erect home for aged, near Woodmen of the World War Memorial Sanatorium.

### Railway Stations, Sheds, Etc.

Miss., Hazlehurst—Illinois Central Railroad, F. L. Thompson, Ch. Engr., Chicago, will erect passenger depot; cost \$45,000.

### Schools

Ala., Anniston—Board of Education are receiving bids to erect negro school; hollow tile; composition shingle roof; steam heat; plumbing; Lockwood, Poundstone & Billie, Archts., Anniston. (Previously noted.)

Ala., Tuscaloosa—Central College, Dr. L. O. Dawson, Pres., Bd. of Trustees, is reported planning to rebuild structure lately noted burned; cost \$100,000; accommodate 100.

Ark., Nettleton—School Board will erect 4-room addition to school; cost \$10,000; H. A. Lesmeister, Archt., Jonesboro.

Ark., Paragould—School Board, J. T. Agee, Pres., will erect high school, 7th and West Court St.; cost \$175,000; 19 to 24 class rooms, study hall, auditorium, gymnasium, library, laboratory, etc.

Fla., Chattahoochee—School Board will erect school; bids received until Sept. 24.

Fla., Ocala—City will vote on \$100,000 bond for school improvements, including first unit of new high school building. Address Board of Education.

Ga., Sylvania—Sylvania School Dist. will vote on \$40,000 bonds to erect school. Address Board of Education.

Ga., Thomasville—Board of Education plans to erect several schools; election Sept. 27 on \$155,000 bonds.

Ky., Frankfort—City Board of Education will erect high school; Frank I. Packard, Archt., Columbus, Ohio, will supervise construction.

La., Bienville—Parish School Board, Arcadia, La., will receive bids until Oct. 2 to erect brick school; cost \$50,000; J. W. Smith, Archt., Monroe, La.

La., Monroe—Louisiana Training Institute will receive bids until Sept. 21 to erect building, cost \$40,000; J. W. Smith, Archt., Monroe. (Lately noted.)

Md., Salisbury—Eastern Shore State Normal School Comm., Chas. R. Disharoon, Chmn., will receive bids until Sept. 28 to erect group of buildings; separate bids for building construction, heating, plumbing, electric wiring; brick; stone trim; hollow tile; metal doors; concrete floors; vault lights; rolling partitions; wire glass; accommodate 230; plans and specifications for buildings at office Smith & May, 763 Calvert Bldg., Baltimore; plans for mechanical equipment at office Jas. Posey, Conslt. Engr., 11 E. Pleasant St., Baltimore. (Previously noted.)

Miss., Hazlehurst—Midway Consolidated Schools, F. G. Magee and P. G. Edwards, Trustees, will receive bids until Sept. 21 to erect school.

Mo., Chillicothe—Board of Education will erect \$300,000 junior and senior high school; bids received Oct. 2; Warren Roberts, Archt., Chillicothe.

Mo., Columbia—School Board, J. M. Wood, Pres. of Stephens College, will erect 6 buildings; cost \$2,000,000; four dormitories; recitation hall; library; art building; gymnasium; reception rooms and science hall.

Mo., Hunnewell—Hunnewell Special School District defeated \$20,000 bond issue to erect school; will call another election in about 15 days. Address District School Trustees. (Lately noted.)

Mo., Kansas City—School Board will erect school facing W. Fifty-second St.; cost about \$350,000; 2 stories with basement; cut stone trimmings; 18 class rooms, kindergarten, home economics and manual training rooms, auditorium and gymnasium; Chas. A. Smith, Archt., Kansas City.

Mo., Neelyville—School Board will erect school; bonds voted.

N. C., Asheville—Lower Hominy Township voted bonds to erect \$60,000 school at Sand Hill and \$40,000 school at Venable. Address Buncombe County Bd. of Education, Asheville.

N. C., Durham—School Board will erect junior high school; Milburn-Heister Co., Archt., Durham, and Union Savings Bank, Washington, D. C.

N. C., Lexington—School Board postponed letting contract indefinitely.

N. C., Raleigh—North Carolina State College of Agriculture and Engineering will erect gymnasium; cost \$175,000; 175x110 ft.; brick; limestone trim; steel roof trusses; slate roof; steel sash; wood and concrete floors; swimming pool; plans ready about Sept. 25; bids opened Oct. 8. Address Hobart Upjohn, Archt., Grand Central Terminal, New York. (Previously noted.)

S. C., Columbia—School Board will erect 2-story negro industrial school, 2200 block Lady St.; 1st floor, 10 foot corridor, classroom, finishing room, office, mechanical draw-

ing room and manual training department; 2nd floor, cooking room, classroom, laundry room, sewing room, fitting room and 10 foot corridor; concrete floors; J. H. Sams, Archt., Columbia.

S. C., Gaffney—School District No. 10, F. W. Sassamon, Clk., will erect grammar school; cost \$60,000 to \$65,000; 125x60 ft.; ordinary construction; composition roof; wood floors; Webster system heating; conduit lighting; J. J. Baldwin, Archt., Anderson and Gaffney; bids opened Sept. 15. (Previously noted.)

S. C., St. Matthews—Trustees, School District No. 8, Dr. J. K. Farey, Chmn., will receive bids until Sept. 24 (extended date) to erect high school and grammar school; plans and specifications at office F. H. & J. G. Cunningham, Archts., Greenville, S. C. (Lately noted.)

Tenn., Eagleville—School Board plans to rebuild Eagleville High School; cost \$30,000.

Tenn., Lewisburg—Marshall County Board of Education plans to erect \$50,000 high school and expend \$25,000 for erecting and improving elementary schools; election Sept. 29 on \$75,000 bonds.

Tenn., Livingston—Livingston Academy will erect dormitory and administration building; cost \$100,000.

Tenn., Livingston—School Board will erect elementary school; bonds voted.

Tenn., Nashville—Montgomery Bell Academy plans to erect gymnasium, Harding Pike; 60x100 ft.; 2 stories; brick; lockers, showers, etc.; Gardner & Pinson, Archts., Nashville.

Tex., Austin—State Girls' Training School will erect cottage, store room and remodel cottage for school; cost \$23,000.

Tex., Brady—Brady Independent School Board, F. A. Knox, Sec., will erect building.

Tex., Dallas—School Board will erect addition to O. M. Roberts School, E. Grand and Fitzhugh Aves.; cost \$60,000; 3 stories; 8 classrooms, auditorium and music room; built-in lockers.

Tex., Eagle Lake—Board of Trustees, W. A. Dallas, Sec., will receive bids until Sept. 24 to erect high school; cost \$105,000; reinforced concrete, brick and tile; built-up roof; interior tile; metal doors; concrete, wood, mastic, tile and linoleum floors; ventilators; ornamental terra cotta; steel sash and trim; wire glass; steam heat; conduit system of lighting; 1st floor, 16,200 sq. ft.; 2nd floor, 12,900 sq. ft.; plans and specifications at office of Giesecke & Harris, Archts., 520-21 Littlefield Bldg., Austin. (Lately noted.)

Tex., Greenville—School Board, B. L. Tatch, Supt. of Education, will erect school near Hollyknowe; bids received until Oct. 8.

Tex., Irene—Irene Independent School District voted bond issue of \$20,000 to erect high school. Address Board of Trustees, Irene.

Tex., Lubbock—State Bd. of Public Instruction, S. B. Cowell, Chmn. Locating Comm., Austin, will erect Texas Technological College at Lubbock; cost \$1,000,000; Clifford B. Jones, Chmn. of Archt. Comm., Spur, Tex. (Lately noted.)

Tex., Rock Springs—Rock Springs Independent School will erect 2 story brick school; voted bond issue of \$45,000. Address District Trustees.

Va., Lexington—Washington and Lee University Board of Trustees will enlarge Chapel.

Va., Richmond—Board of Trustees of Academy of Science will erect home, West Franklin St.

W. Va., Charleston—Kanawha County Board of Education will erect 8-room build-



ings on Truslow St. and Bigley Ave.; 5 room building at Island Grove; 8 room building with auditorium on Swann's Hill; Warne, Tucker & Patterson, Archts., Masonic Temple, Charleston; Skaggs & Allen, Charleston, lowest bidders as follows: Swann's Hill, \$73,130; Bigley, \$51,576; Truslow, \$51,076; Island Grove, \$48,850; Myers Bros., lowest bidders on plumbing and gas fitting; P. A. Donovan, wiring. (Lately noted.)

W. Va., Fairmont—State Board of Control, Jas. S. Lakin, Pres., Charleston, will erect superintendent's residence and nurses' home at Fairmont State Normal School.

### Stores

Ala., Fort Payne—Dr. C. W. Wright will erect building, Gault Ave. and Vine St.

Ala., Huntsville—C. L. Jones, of Dora Banking & Trust Co., will erect brick building, Main St.

Fla., Jacksonville—T. S. Roberts will erect building, 116-18 Julia St. for J. E. Gilbert; one story, brick and concrete.

La., Dixie—Farrnbacker and Kahn will erect 2 stores; cost \$50,000; ground floors stores; upper floors office buildings.

La., Shreveport—J. C. Simon and Winters Estate will erect store, 1000 Texas Ave.; 80 ft. frontage; brick and stone; Seymour Van Os, Archt., 1212 Merchants Bldg., Shreveport; Atkins & Arthur, Shreveport, are lowest bidders at \$15,325.

Miss., Jackson—Tony Panzica will erect 2-story brick building.

Mo., Kirksville—Shryack Wholesale Grocery Co. will rebuild structure lately noted burned.

N. C., Greensboro—Meyers Co. will erect \$150,000 department store; 67x158 ft.; 5 stories; steel and concrete; composition roof; wood floors; steam heat; bids opened about Oct. 1; Harry Barton, Archt., Greensboro. (Previously noted.)

N. C., Hendersonville—S. E. Messner will erect 4 stores on 3rd Ave. W.; 17 ft. frontage each.

N. C., Sanford—R. E. Marks and T. M. Cross will erect building with three 24-ft. store rooms on ground floor and offices above.

N. C., Sanford—Sanford Sash & Blind Co. will erect building for store rooms and offices.

Tenn., Pulaski—American Cigar Co. will erect building; bids opened Sept. 15.

Tex., Cameron—Milan County Hardware Co. will erect 1-story building; P. G. Silber & Co., Archts., Bedell Bldg., San Antonio.

Tex., Dallas—Brinkhoff & Bennett will erect building, Greenville Ave.; cost \$15,000; one story with 4 store rooms.

Tex., Houston—Bender Brothers will erect 3-story brick building, Congress Ave. and Caroline Sts.; cost \$200,000; bids opened Sept. 18; C. D. Hill & Co., Archts., Dallas.

Tex., Lorenzo—H. C. Pearson will erect brick building; 25x90 ft.

Va., Richmond—J. Bridge will erect one-story building, 1008 Chamberlayne Parkway; cost about \$10,000.

### Theatres

Ark., Fayetteville—E. C. Robertson will erect \$50,000 theater, Center St.; brick and terra cotta with marble foyer; leather upholstered chairs; rest room; furnace heat; typhoon cooling system and \$10,000 pipe organ.

Fla., Plant City—M. E. Moody, Dr. C. T. Young and Col. J. L. Young, will erect building at Reynolds and Ever Sts. for theater to seat 1000, four stores and several offices; to be leased by Hillsboro Amusements, Inc., Tampa; cost \$100,000, including site; Frank J. Winn, Jr., Archt., Tampa.

### Warehouses

Ala., Bayou Labatre—Bank of Bayou Labatre, Lloyd Warner, Pres., will erect concrete warehouse.

La., Shreveport—Wm. Merriweather will erect building, Southern Ave.; cost \$115,000; Seymour Van Os, Archt., 1212 Merchants Bldg., Shreveport.

La., Shreveport—Shreveport Mill and Elevator Co., Z. R. Lawhorn, Pres., will rebuild burned structure.

Mo., Springfield—Green County Roller Mills Co. will erect warehouse; cost \$10,000.

W. Va., Huntington—Keister Miller will erect warehouse on alley between Fifteenth and Sixteenth Sts.; cost \$10,000.

### Bank and Office

Okla., Tulsa—Producers National Bank, T. J. Hartman, Vice-Pres., will erect \$150,000 building; 65x75 ft.; basement, main and mezzanine and second floors; reinforced concrete; Carthage stone and gray terra cotta; concrete floors; gravel roof; Geo. W. Winkler, Archt., J. W. Wilson, Contr.; both Tulsa; heating, lighting and elevators in general contract. (Lately noted.)

Tenn., Coal Creek—Bank of Coal Creek let contract to erect building.

Va., Abingdon—Peoples National Bank will erect \$52,000 bank and office building on Wall St.; 40x50 ft.; 4 stories; limestone and brick; steel frame; tin roof; hardwood floors; hollow fireproof tile; vaults; ventilators; steel sash and trim; wire glass; C. B. Kearfott, Archt., Bristol, Va.-Tenn.; Beeler & Co., Contrs., Johnson City, Tenn.; Fred Hayes, Bristol, steam heating, \$5000; electrical work, \$1500, and elevators not let. (Lately noted.)

### Churches

Okla., Pawhuska—First Baptist Church, Rev. John W. Jennings, Pastor, Pawhuska, Okla., will erect \$50,000 building; brick; concrete and hardwood floors; shingle roof; hollow fireproof and interior tile; metal ceilings and doors; ventilators; rolling partitions; wire glass; electric lights; natural gas heat; T. J. Galbraith, Archt., Dallas, Tex.; M. A. Brown, Contr., Bartlesville, Okla. Address Rev. Mr. Jennings. (See Mehy. Wanted—Building Material; Ventilators; Rolling Partitions.)

Tex., Calvert—Methodist Episcopal Church will erect \$17,800 building; brick veneer over frame; metal shingle roof; edge grain yellow pine floors; hot air heat; P. G. Silber & Co., Archts.; W. A. McArdle, Contr., 902 W. Summit Ave.; both San Antonio; electrical work and plumbing lately noted let.

W. Va., Mullens—First Baptist Church will erect first unit of building; cost \$16,000; 30x52 ft.; brick; pine floors; asphalt shingle roof; hot water heat; electric lights; J. L. Montgomery, Archt., Charleston; Early Bros., Contrs., Mullens; all sub-contracts let. (Lately noted.)

W. Va., Wheeling—St. Joseph Cathedral, Bishop John J. Swint, will erect \$372,700 building; E. J. Weber, Archt., Pittsburgh, Pa.; R. R. Kitchen Contracting Co., Contr., Wheeling. (Previously noted.)

### City and County

Okla., Muskogee—Home—Muskogee County, W. H. Harrower, Chmn., County Commrs., will erect poor farm home; 1 story; cost \$18,500; concrete and brick; 29x114 ft.; slate covered shingle roof; cement floors; vapor system of heat, \$2200; M. T. Hardin, Archt., Equity Bldg.; W. L. Hoffman, Contr., 2221 W. Broadway; both Muskogee.

Tenn., Huntsville—Jail—Scott County, Frazier McDonald, Sec., Jail Comm., will erect addition to jail; 35x57 ft.; fireproof; Barrett roof; concrete floors; electric lights; Clarence T. Jones, Archt., James Bldg., Chattanooga; E. J. Foster, Contr., Winfield. (Lately noted.)

Tex., Groesbeck—Courthouse—Limestone County will erect \$300,000 courthouse; fireproof; reinforced concrete and brick; Bedford stone trim; 3 stories and basement; 144x234 ft.; built-up tar, gravel and felt roof over concrete slab; concrete, wood and composition floors; steam or hot water heat; lighting not decided; Midwest Engineering Co., Archts.; W. M. Rice Construction Co., Contr., both Amarillo. (Lately noted.)

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Ky., Louisville—Kosair Temple, A. A. O. N. M. S., Paul Compton, Chmn., Bldg. Comm., will erect \$1,000,000 Oriental type Shrine Temple; club and hotel section to be constructed first; 7 stories in part; 216x200 ft.; structural steel and reinforced concrete; exterior of semi-glaze finish terra cotta; Barrett specification roof; concrete, oak, terrazzo and marble floors; hollow fireproof and interior tile; metal doors; vaults; mail chutes; ventilators; ornamental terra cotta; steel sash and trim; wire glass; Joseph & Joseph, Archts.; C. A. Koerner & Co., Contrs., both Louisville. (Lately noted.)

Tex., Fort Worth—South Side Lodge No. 1114, A. F. & A. M., will erect \$127,000 lodge building, 5th Ave. and Magnolia St.; 75x100 ft.; structural steel, frame and concrete; fireproof; composition roof; wood, tile and concrete floors; metal doors; vaults; ventilators; steel sash and trim; wire glass; heating about \$7906, may install gas radiators; electric lighting, \$5572; J. B. Davies,

Archt., 1308 Hemphill St.; K. H. Muse, Contr., both Fort Worth. (Lately noted.)

Tex., Houston—Young Women's Christian Assn., Mrs. Harris Masterson, Chmn., Bldg. Comm., will erect \$160,000 residence hall, Dallas and Crawford Sts.; 4 stories; 84 x 114 ft.; reinforced concrete; fireproof; tar and gravel roof; concrete, hardwood and tile floors; hollow fireproof and interior tile; metal doors; Briscoe & Dixon, Archts., 17th floor, Carter Bldg.; Southwestern Construction Co., Contr., 420 West Bldg.; both Houston. (Plumbing and heating, electrical work and refrigerating contracts lately noted.)

W. Va., Keyser—Queens Point Lodge No. 78, I. O. O. F., Luke McDowell, Chmn., Bldg. Comm., will erect \$25,000 to \$30,000 building on site of present structure; 49 x 64 ft.; 2 stories; stores on first floor, lodge rooms above; brick and hollow fireproof tile; pine floors; composition roof; possibly metal doors and ceilings, wire glass and concrete floors; C. W. Shelly, Archt., Keyser; owner builds; masonry, steel, millwork, heating, \$3500, and electric lighting not let. Address Archt. or Bldg. Comm.

### Dwellings

Fla., Miami—Robt. McLendon will erect residence, N. Greenway Drive; Kiehnel & Elliott, Archts.; John Bond, Contr.; both Miami.

Fla., Miami—Roy Swanson has contract to erect 5 dwellings in Section E, Coral Gables; cost \$10,000 to \$15,000 each; H. Geo. Fink, Archt., Miami.

La., New Orleans—Dr. T. J. Walsh will erect duplex dwelling, Broadway and Apricot Sts.; cost about \$10,000; G. Giefers, Contr., 232 General Taylor St., New Orleans.

La., New Orleans—Sam Martina, 4306 Hamilton St., will erect \$14,000 triplex residence, S. Scott and Canal Sts.; Fred Wilmot, Contr., New Orleans.

Md., Baltimore—Simon Grenebaum, 1301-03 W. Baltimore St., will erect residence on Park Ave. near Park Terrace; 2½ stories; brick; Daniel Sackerman, Archt.-Contr., Baltimore St. near South St. (Lately noted.)

Mo., St. Louis—Joe Mochisky, 1301 Pine St., will erect \$15,000 residence, 4051 Magnolia Place; 2 stories; 57x29 ft.; brick; concrete, hardwood and tile floors; tile roof; electric lights; R. A. Conzelman, Archt., 810 Chestnut St.; Sokol & Kemp, Contrs., 4352 Delmar Blvd.; both St. Louis; hot water heating, \$1200, not let.

Mo., St. Louis—W. A. Burmeister, 5448 Queens St., will erect 2 two-story dwellings, 5440-44 Queens St.; total cost \$17,800; 25x32 ft.; tile roof; hot water heat; Nolte & Nauman, Archts.; Wm. Meyer & Son, Contrs.; both St. Louis.

Mo., St. Louis—L. Orr, 5553 Bartmer St., will erect 2 two-story tenements, 3231-35 Lafayette St.; 33x52 ft.; composition roofs; 4 furnaces each; total cost \$24,000; B. S. Cornwell, Contr., 105 N. 8th St., St. Louis.

Okla., Muskogee—Otis Kelly will erect brick veneer residence, 15th St. and Broadway; 1 story and basement; 28.6x66 ft.; zinc roof; oak and concrete floors; ventilators; steel sash and trim; Bassham & Howenstein, Archts.; John Ellis, Contr.; Star Tin Shop, Round Oak furnace; Oklahoma Elec. Co., electrical work; all Muskogee. (Lately noted.)

Tenn., Nashville—R. A. Coleman will erect 12-room residence in Belle Meade Park; stucco and brick; servants' house, garage, laundry, etc.; Gardner & Pinson, Archts.; H. S. Vaughn, Contr.; all Nashville.

Tex., Dallas—Dallas Journal will erect \$11,000 dwelling, Belmont Heights; 1 story; brick veneer; oak floors; tile baths; built-in features; Allan Burton, Archt.; Dolan & Johnson, Contrs., both Dallas.

Tex., Dallas—Gardner Lipscomb will erect \$17,000 residence; 2 stories; brick veneer; Flint & Broad, Archts.; A. J. Rife, Contr., both Dallas. (Lately noted.)

Tex., Dallas—O. C. Nichols will erect \$20,000 residence, 4506-08 Gaston Ave.; 10 rooms; brick veneer; composition roof; hardwood finish; plastered walls; 2 tile baths; S. J. Churchill, Contr., Dallas.

Va., Richmond—B. H. Melton 3615 Maccomb St., will erect 5 dwellings, 3300 block Park Ave.; 20x34x30 ft.; 2 stories; brick walls and foundations; wood floors, tin and slate roofs; hot water heat; total cost \$37,000; plans by owner; E. R. Coffee, Contr., Richmond.

### Hospitals, Sanitariums, Etc.

Md., Baltimore—Maryland General Hospital, Dr. George C. Peck, Supt., Madison and Linden Aves., will erect addition; 60x100 ft.;

5 stories; ordinary masonry; rift pine floors; tin roof; hollow fireproof tile; wire glass; W. W. Emmart, Archt., Union Trust Bldg.; Thos. Hicks & Son, Contrs., 106 W. Madison St., both Baltimore.

### Hotels and Apartments

Fla., Leesburg—Mrs. M. McCormack will erect third-story addition and solarium to Magnolia Hotel, lately noted; former 88.9x31.9 ft.; latter 66.9x15.7 ft.; cost \$18-000; brick; stucco finish; built up roof; wood floors; F. O. Adams, Jr., Archt., Grand Theater Bldg., Tampa; W. M. Trunnell, Contr., Leesburg. Address B. O. Baker, Magnolia Hotel, Leesburg. (See Machinery Wanted—Fire Escape.)

Fla., Miami—Geo. E. Merrick will erect hotel; cost \$65,000; 100x100 ft.; semi fireproof; tile roof; tile and wood floors; electric lights; 50 rooms, number of balconies, fountains, gardens; Martin L. Hampton, Archt.; J. W. Ricketts, Contr.; both Miami.

Fla., Miami—Hotel Nautilus will erect 10 cottages in connection with hotel under construction; 2 stories; Geo. A. Fuller Co., Contr., Fuller Bldg., New York.

Miss., Biloxi—Buena Vista Hotel Co., Col. John W. Apperson, Pres., will erect 4-story hotel; cost \$200,000; Spanish architecture; concrete and tile; 2 elevators; beach piers and bathing facilities; Carl Mathis, Archt.; Underwood Construction Co., Contr.; both New Orleans. (Lately noted.)

Tex., Brownwood—Southern Hotel will remodel building; cost \$60,000; Sanguinet, Staats & Hedrick, Archts., Fort Worth; A. C. Bratten, Contr., Brownwood.

Tex., Dallas—A. P. Johnson will erect 2 story brick veneer apartment; Dolan & Johnson, Contrs., Republic National Bank Bldg., Dallas.

Va., Richmond—M. R. Pilmore, 2520 Hanover St., Richmond, will erect building, 2818 W. Grace St.; cost \$30,000; 58x140 ft., 3 stories; concrete and brick; slate roof; steam heat; wood floors; W. E. Purcell, Contr., 104 N. Eighth St., Richmond.

Va., Richmond—J. Thornton Davis, 2510 W. Main St., Richmond, will erect apartment, Belmont and Sheppard Sts.; cost \$35-000; 46x82x47 ft.; 3 stories; brick; tin and slate roof; hot water heat; wood floors; Davis Bros., Contrs., 2510 W. Main St., Richmond.

### Miscellaneous

S. C., Aiken—Home—Old Folk's Home will remodel and repair building; Otis L. Steifel, Contr., Aiken.

### Railway Stations, Sheds, Etc.

Mo., Crane—Missouri Pacific R. R., E. A. Hadley, Ch. Engr., St. Louis, will erect station; Joseph E. Nelson & Son, Contrs., 3240 S. Michigan Ave., Chicago, Ill.

### Schools

Ala., Grant—Daughters of the American Revolution will erect building, Gunter Mountain; 147x38 ft.; 4 rooms; field stone; F. H. Copeland, Contr., St. Clair County.

Ark., Forrest City—Board of Education will erect school for negroes; to be known as Lincoln Consolidated school; cost \$20,000; brick veneer; asphalt shingle roof; wood floors; low pressure steam heat; about \$2000; Jas. L. Gatling, Archt., Memphis, Tenn.; Jno. A. Moore, Contr., Forrest City.

Fla., Ft. Lauderdale—Broward County Board of Public Instruction, Jas. S. Rickards, Supt., will erect school; cost \$13,950; 6 rooms tile and stucco; John M. Peterman, Archt.; Cayot & Hart, Contrs.; both Ft. Lauderdale.

Fla., Gainesville—Board of Managers of Florida Farm Colony will erect school and auditorium for epileptics and feeble minded; cost \$25,000; 1 story; school 52x120 ft.; auditorium, 40x60 ft.; exterior walls; face brick; interior studs; tile roof; pine floors; steam heating plant; electric lighting Greeley & Benjamin, Archts., Bisbee Bldg.; W. T. Hadlow, Contr., Baldwin Bldg.; both Jacksonville. (Lately noted.)

Fla., Gainesville—State Board of Control, P. K. Young, Chmn., Jacksonville, will erect auditorium, University of Florida; cost \$100-000; seat 2000; R. J. Gillespie, Contr., Jacksonville; Edward & Sayward, Archts., 609 Chamber Bldg., Atlanta, Ga. (Lately noted.)

Fla., Sarasota—School Board will erect 2 schools for white and school for negro children; W. R. Carman Co., Contr., Tampa and Sarasota; Geo. A. Will's, Contr., for lighting and heating; H. H. Bunnell, plumbing for intermediate school; J. E. McDavit, plumbing for colored school.

Ga., Buena Vista—Board of Education, Roland B. Daniel, Supt., will erect 1 story combination high and grammar school; cost \$30,000; J. O. Smith, Contr., Buena Vista. (Previously noted.)

Ky., Murray—State Normal School Commission, Louisville, will erect building; cost \$100,000; 3 stories; Joseph & Joseph, Archts., Louisville; Forbes Manufacturing Co., Contr., Hopkinsville, Ky.; S. D. Dalbey Electric Co., Paducah, Ky., wiring; Fisher Heating Co., Memphis, Tenn., heating; Ed. S. Hannon Plumbing Co., plumbing.

Mo., Sedalia—Geo. Suter Co., Sedalia, has contract at \$11,975 for heating and plumbing in Summit school for which Davis-Phillips Construction Co., Columbia, has general contract at \$85,000. (Lately noted.)

Mo., Quin—School Board will erect school; bonds voted; Reynolds & Williamson, Contrs., Poplar Bluff.

Mo., Warrensburg—Board of Education will erect Junior-Senior High School; cost about \$185,000; brick and stone; J. H. Felt & Co., Archts., Kansas City; McCarthy Construction Co., Contr., St. Louis.

N. C., Salisbury—School Board will erect brick addition to Ellis St. School; cost \$20,000; 7 rooms; brick; metal roof; wood floors; steam heat; electric lights; W. C. Northup, Archt., Winston-Salem; E. W. Waggoner, Contr., Salisbury.

Tenn., Knoxville—H. E. Rogers, Knoxville, has contract to remodel Deaf and Dumb School for Negroes, Dandridge pike; cost \$10,000.

Tenn., Nashville—School Board will erect gymnasium for David Lipscomb College; 50x75 ft.; brick and steel; lockers; showers; etc.; C. K. Colley, Archt.; R. A. Griffin Contracting Co., Contrs.; both Nashville.

Tex., Abilene—Simmons College, C. M. Caldwell, Pres., Bd. of Trustees, will erect dormitory for boys; cost \$110,000; 160x84 ft.; 3 stories; brick and concrete; fire proof; gravel roof; wood and concrete floors; steel sash and trim; D. S. Castle Co., Archt.; R. G. Lewis, Contr., both Abilene.

Tex., Denton—North Texas State Teachers College will erect administration building and auditorium; cost \$234,775; 3 stories; 153x195 ft.; structural steel and reinforced concrete; built up roof; tile and cement floors; hollow fireproof tile; interior tile; ornamental terra cotta; C. H. Page & Bro., Archts., Austin; Bellows Maclay Construction Co., Contr., 1217 Kirby Bldg., Dallas.

Tex., Ennis—School Board will erect brick building, Tellico District; cost \$11,340; Hix



McCanless, Archt.; Horace Staples, Contr., both Ennis.

### Stores

Ala., Ensley—Ramsey & McCormack will erect building on Ave. E. between 18th and 19th Sts. for Daniel Furniture Co.; 40x155 ft.; fireproof brick; Holley & Davis, Contrs., Ensley. (Lately noted.)

Fla., Miami—Adam's Corporation (W. E. Manly & J. R. Anthony, Jacksonville, and Oscar Daniles, Miami Beach) will erect Lorraine Arcade on E. Flagler St.; cost \$115,000; 2 stories; concrete, plate glass and tiling; Kiehnel & Elliott, Archts., Miami; Geo. A. Fuller Co., Contr., Fuller Bldg., New York. (Previously noted.)

La., Shreveport—S. H. Kress Co., New York City, will erect building, 400 Texas Ave.; cost \$40,000; Ed. F. Neild, Archt., 1206 Merchants Bldg.; B. & T. Const. Co., Contr.; both Shreveport.

La., Shreveport—A. M. Eichelberger will erect 1 story store; brick and stone; cost \$20,000; B. & T. Const. Co., Contr., Shreveport.

Mo., St. Louis—R. C. Davis will erect 2-story store, 4423-25 Manchester St.; 30x50 ft.; composition roof; furnace heat; J. H. White, Contr., 2099 Bellevue Ave., St. Louis.

N. C., Sanford—R. E. Marks and Mrs. M. W. Cross will erect building; cost \$50,000; 85x100 ft.; 2 stories; brick, gravel roof; wood floors; W. L. Jewell, Archt.; Jewell-Riddle & Co., Contrs., both Sanford; W. H. Gurley, Durham, heating; \$4000.

Tenn., Knoxville—Sanford, Chamberlain & Albers Co., will erect brick building, State St.; 4 stories and basement; 130x50 ft.; electric elevator; sprinkler system; A. B. Baumann & A. B. Baumann, Jr., Archts., 813½ Market St.; W. S. Hall, Contr., both Knoxville.

Tex., Austin—Mrs. Rose Gilfillan will erect 1 story brick building; Frank R. Rundell, Contr., 906 W. 26th St., Austin. (Lately noted.)

Tex., Austin—Miss Mary Birge will erect 1-story building, 2204 Guadalupe St.; cost \$17,000; Scott Yeamans, Contr., 108 W. First St., Austin.

Tex., Dallas—Paul Cascio, 1592 Nettie St.,

will erect 1 story brick and frame store and residence; McCright-Crame Co., Contr., Scollard Bldg., Dallas.

Tex., Dallas—M. Strauss will erect 1 story brick store; L. J. Beaver, Contr., 2620 Jefferies St., Dallas.

Tex., Dallas—K. M. Naugle, 126 W. Jefferson St., will erect 1 story brick veneer store; Fred C. Herbst, Contr., Central Bank Bldg., Dallas.

Tex., Galveston—Frank P. Malloy will erect 3 story building, south side Ave. E.; cost \$45,000; 1st floor, stores; 2nd and 3rd floors, garage; freight elevator; 60x120 ft.; reinforced concrete; brick and hollow tile; M. C. Bowden and Jas. Kennedy, Contrs., Galveston.

W. Va., Richwood—Deltz & Spencer will erect building; 60x60 ft.; clinder blocks and brick; steel sash and trim; Johns-Manville roof; hardwood over concrete floors; metal ceilings; Arcola system, hot water heat; skylights; J. A. Tincher, Archt. and Contr., Richwood.

### Theatres

La., Baton Rouge—Elks Theater Co., Ltd. (Alex Grouch, Jr., Eugene Cazedessus and H. F. Brunot) will erect building 3rd and Florida Sts.; cost \$182,000; 4 stories and basement; 64x190 ft.; fireproof; brick, reinforced concrete and steel; composition roof; interior tile; low pressure steam heat; 2 passenger elevators; 6 store rooms on ground floor; 45 offices; Favrot & Livaudias, Ltd., Archts., Hibernia Bank Bldg., New Orleans; Stewart-McGehee Construction Co., Contr., Little Rock, Ark. (Previously noted.)

La., New Orleans—J. C. Courcier will erect theater, Lafayette and Roman Sts.; cost \$12,000; Nuccio & Yancey, Contrs., 2759 Clover St., New Orleans.

### Warehouses

Fla., Center Hill—Beville & Oldham Co., Inc., J. S. Beville, Pres., will erect warehouse; cost \$25,000; 50x100 ft.; Hooten & Venable, Contrs., Center Hill.

Fla., St. Petersburg—City will erect storage warehouse; cost \$20,000; 40x105 ft.; concrete, brick and tile; steel trusses; concrete slab and composition finished roof; concrete and cement finished floors; steel sash and trim; wire glass; Walter G. Kirkpatrick, Consultg. Eng., St. Peters-

burg; Carman Co., Contr., Tampa, Fla. (Lately noted.)

Ky., Hopkinsville—Dark Tobacco Growers' Co-operative Assn. will erect warehouse; cost \$40,000; 130x586 ft.; 8 sections; Manley & Young, Archts., Knoxville, Tenn.; E. H. Hester, Contr., Hopkinsville. (Lately noted.)

Ky., Mayfield—Dark Tobacco Growers' Co-operative Assn. will erect warehouse; cost \$40,000; 150x352 ft.; Manley & Young, Archts., Knoxville, Tenn.; Jack Cole, Contr., Paducah. (Lately noted.)

La., Shreveport—Mrs. W. H. Booth will erect two-story reinforced concrete store and warehouse; Jones, Roessle & Olschner, Archts., New Orleans and Shreveport; W. H. Werner, Contr., Shreveport; Norton Electric Co., electrical work.

N. C., Charlotte—G. B. Ray will erect brick building, 301 E. Fifth St.; cost \$58,000; J. A. Gardner, Contr., Charlotte.

Tenn., South Pittsburg—Trigg, Dobbs & Co., Chattanooga, will erect \$10,000 warehouse; Baxter Brothers, Contrs., Huntsville, Ala.

Tex., Dallas—Terminal Building Corp., H. A. Olmsted, Pres., temporary offices 1008 S. W. Life Bldg., will erect Santa Fe office and 4 warehouse units, Commerce St. between Kendall and Poydras Sts.; cost \$5,000,000; office building 19 stories; 135x200 ft.; 200,000 sq. ft. floor space; steel and concrete finished with marble, granite and stone; copper roof; 9 elevators, including freight, passenger and lifts; 7-ft. glass enclosed corridor; clock with chimes; first warehouse unit, 10 stories; 161x200 ft.; 335,290 ft. floor space; second unit, 8 stories; 245x100 ft.; third unit, 8 stories; 245x100 ft.; fourth unit, 8 stories; 161x200 ft.; brick over steel and concrete; 5 underground railway tracks; Lloyd R. Whitson and F. Cowderoi Dale, Archts.; Prof. Geo. A. Maney and W. E. Joor, Struc. Engrs.; R. T. Taylor, Mech. Engr.; Watson Co., associated with J. C. Buchanan, Gen. Contr.; Austin Bros., structural steel, iron and metal work; Vilbig Bros., excavating; W. A. Jacobie Co., marble, tile and terrazzo work; Kinnison Bros., heating; Martyn Bros., plumbing; Manett, Seastrunk & Buckner, electric work, wiring and fixtures; all Dallas; Bucy-Ingram Lumber Co., Fort Worth, lumber and millwork; elevator contract later. (Lately noted.)

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

**Air Compressors.**—See Water Works Equipment.

**Air Compressor, etc.**—Supt. of Light-houses, Buffalo, N. Y.—Bids until Sept. 24 for electric driven air compressor unit and for oil driven electric generator unit, etc.

**Air Compressor.**—W. M. Smith & Co., Box 1700, Birmingham, Ala.—Prices on small air compressors.

**Aluminum Sulphate (Alum) Manufacturing Machinery.**—G. W. Goodman, Sec., Arkansas Bauxite Products Co., Box 381, Little Rock, Ark.—Machinery for the manufacture of commercial aluminum sulphate.

**Boilers (Water Tube).**—See Paper Making Machinery.

**Breakwater.**—U. S. Engineer Office, Milwaukee, Wis.—Bids until Sept. 28 to construct breakwater at Milwaukee harbor.

**Breakwater Construction, etc.**—City of Corpus Christi and Navigation Board of Nueces County, Tex.—Details under Construction News—Miscellaneous Construction.

**Brick.**—See Building Materials.

**Brick (Cement).**—The Felstone Co., Asheville, N. C.—Data and prices on cement brick; correspond with manufacturers located near Asheville.

**Bridge.**—Harrison County, Board of Suprvs., Gulfport, Miss. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Clarke County, Quitman, Miss. Details under Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—Volusia County, Daytona, Fla. Details under Construction News—Bridges, Culverts, Viaducts.

**Bucket (Clam Shell).**—H. Eberman, Morgantown, Ky.—To purchase 1 or 1¼-yd. clam shell bucket.

**Building Material.**—Rev. John W. Jennings, Pastor, First Baptist Church, Pawhuska, Okla.—Building material, including hollow fireproof and interior tile, metal ceilings and doors, concrete and hardwood floors, wire glass.

**Building Material.**—Superintendent U. S. Naval Academy, Annapolis, Md.—Building material, including plaster board, cement, metal lath and concrete blocks for 10 officers' quarters.

**Building Materials.**—Edward Tucker, Ocala, Fla.—Prices on building material, including brick, cement and tile flooring, steel sash; steel trusses; metal or steel rolling doors; plate glass.

**Bulkheads.**—Pinellas County Comms., Clearwater, Fla. Details under Construction News—Bridges, Culverts, Viaducts.

**Butchers Supplies.**—Hecht Brothers Co., Columbus, Ga.—To purchase butchers supplies, including meat blocks, cutlery, etc.; correspond with manufacturers.

**Carbon Black Plants.**—Acme Carbon Mfg. Corp., 814 Ouachita National Bank Bldg. Monroe, La.—Data and prices on construction of carbon plants.

**Cars (Side Dump).**—R. P. Johnson (Mchy. Dealers) Wytheville, Va.—Six second-hand,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



4 yd. capacity side dump cars, 36-in. gauge, dealers prices, immediate shipment.

**Chemical Equipment.**—See Electrical and Chemical Equipment.

**Compressor Outfit.**—Box 1178, Columbus, Ga.—Small, second-hand air compressor outfit with reservoir, electrically driven, 3 phase, 60 cycle, 550 volts.

**Concrete Block.**—Superintendent U. S. Naval Academy, Annapolis, Md.—See Building Material.

**Containers (Glass).**—See Tanks (Storage) etc.

**Containers and Cartons.**—Everman Stock & Poultry Farm Remedy Co., Gallatin, Mo.—Prices on corrugated card board cartons for shipping that will meet all requirements, to hold a can 4 x 3 x 12½-in. in size; also tin can container with screw cap opening in top cap lines with cork to hold 1 qt. liquid.

**Cookers (Cylindrical).**—See Paper Making Machinery.

**Culvert.**—Poinsett County, Drainage Dist., No. 7, Marked Tree, Ark. Details under Construction News—Bridges, Viaducts, Culverts.

**Culvert, etc.**—Pinellas County Commrs., Clearwater, Fla. Details under Construction News—Bridges, Culverts, Viaducts.

**Cutlery Machinery.**—H. A. W. Smith, Sec., Smith Cutlery Co., Inc., Danville, Va.—Prices on machinery to manufacture steel shears, snips, hedge trimmers and pruning knives.

**Doors (Metal or Steel, Rolling).**—See Building Materials.

**Electrical and Chemical Equipment.**—V. K. Bessonette, P. O. Box 191, Waco, Tex.—Electrical and chemical equipment for plant with daily output of 100 storage batteries.

**Electric Light Lines.**—Redland Grove-Homes Co., Citizens Bank Bldg., Homestead, Fla.—Interested in receiving bids on installation of electric light lines in development of subdivision of 160 acres.

**Electric Power Plant.**—Florida Food Products, Inc., Box 96, Stuart, Fla.—Prices on electric power plant complete, drive internal combustion engines.

**Engine, Generator, etc.**—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C.—Bids until Oct. 16 for furnishing and installing 1 new engine, generator, etc., in National Home for Lepers, Carville, La.; specifications from office Supervising Archt.

**Engine, Generator, etc.**—Treasury Dept., Supvg. Archt.'s office, Washington, D. C.—Bids until Oct. 16 to furnish and install new engine, generator, etc. in the National Home for Lepers, Carville, La.

**Engine (Hoisting).**—Duncan Machinery Co., (Mchy. Dealers) Box 265, Knoxville, Tenn.—Jobbers prices on double cylinder, single drum hoisting engine, capable of pulling 50,000 lbs. up a five per cent grade; mining hoisting engine with drum for 1900 ft. of ¾-in. cable would be sufficient.

**Engines (Beating).**—See Paper Making Machinery.

**Evaporators (Syrup).**—Florida Food Products, Inc., Box 96, Stuart, Fla.—Prices on syrup evaporators.

**Fire Escape.**—B. O. Baker, Magnolia Hotel, Leesburg, Fla.—One outside, 3-story metal fire escape.

**Flooring (Cement and Tile).**—See Building Materials.

**Gasoline, etc.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Sept. 26 to furnish 2000 gals. motor gasoline, delivery Portsmouth, N. H.; 2000 gals. motor gasoline and 100 gals. kero-

sene, delivery Navy Yard, Philadelphia, Pa.; 7000 gals. motor gasoline, 500 gals. kerosene, delivery Navy Yard, New York; 1000 racks, Naval Ammunition Depot, Dover, N. J.; 3000 gals. motor gasoline, 100 gals. kerosene, delivery Depot of Supplies, Philadelphia, Pa.; 1000 gals. motor gasoline, 500 gals. kerosene, delivery, Marine Barracks, Annapolis, Md.; 7000 gals. motor gasoline, 100 gals. kerosene, delivery Washington, D. C.; 60,000 gals. motor gasoline, 15,000 kerosene and 60,000 gals. Diesel engine fuel oil for delivery Marine Barracks, Quantico, Va.; 5500 gals. motor gasoline and 150 gals. kerosene, delivery Marine Barracks, Yorktown, Va.; 2500 gals. motor gasoline, 200 gals. kerosene, delivery Navy Yard, Norfolk, Va.; 1500 gals. motor gasoline, delivery Marine Barracks, Navy Yard, Charleston, S. C.; 20,000 gals. motor gasoline, 10,000 gals. kerosene, delivery Marine Barracks, Paris Island, S. C.; 14,000 gals. kerosene, delivery Depot of Supplies, Naval Operating Base, Hampton Roads, Va.

**Generator.**—See Engine, Generator, etc.

**Generator (Electric) Unit, etc.**—Supt. of Lighthouses, Buffalo, N. Y.—Bids until Sept. 24 for oil engine driven electric generator unit and electric motor driven air compressor unit, etc.

**Heating Plant (Steam).**—E. W. Bailey, P. O. Box 438, Fernandina, Fla.—Steam heating plant for \$25,000 church.

**Hollow Fireproof Tile.**—Rev. John W. Jennings, Pastor, First Baptist Church, Pawhuska, Okla.—See Building Material.

**Hooks and Eyes, etc.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Sept. 23 to furnish 50 gross hook and eyes for officers and 25 hundred gross trouser buttons and rivets; delivery Depot Quartermaster, 1100 S. Broad St., Philadelphia, Pa. Sch. 123.

**Hulls (Derrick Boat).**—U. S. Engineer Office, Box 72, Louisville, Ky.—Bids until Sept. 29 to furnish and deliver two to six steel derrick boat hulls.

**Ice Plant.**—Florida Food Products, Inc., Box 96, Stuart, Fla.—Prices on 20 ton ice plant, two 10 ton units; electric.

**Incinerator.**—Florida Food Products, Inc., Box 96, Stuart, Fla.—Prices on 5 ton incinerator, for plant refuse disposal.

**Lathe.**—Fred C. Dreyer (Manufacturers Agent) 23½ N. Mechanic St., Cumberland, Mo.—Second-hand engine turning lathe, complete with tools and chuck and counter-shaft; 18-in. swing, 9 ft. 6-in. between centers; state condition, etc.

**Laundry Machinery.**—M. H. Thompson, Wallins Creek, Ky.—Prices on laundry machinery; correspond with manufacturers.

**Mechanical Equipment.**—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until Oct. 16 for mechanical equipment of additional buildings, including patients' cottages, (recreation building; kitchen and mess hall, store house, officers quarters and the extension and remodeling of the outside services including heating, electric, water supply, sewerage disposal, refrigeration, etc.; also construct complete the power house with mechanical equipment at the National Home for Lepers; Carville, La.

**Mechanical Equipment.**—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C.—Bids until Oct. 16 for mechanical equipment of additional buildings, including patients' cottages, infirmary and recreation buildings, kitchen and mess hall, store house and officers' quarters, and extension and remodeling of outside services, including heating, electric, water supply, sewage disposal, refrigeration, etc., and

construction complete of power house, including mechanical equipment, at National Home for Lepers, Carville, La.; specifications and drawings from office Supervising Archt.

**Metal Ceilings.**—Rev. John W. Jennings, Pastor, First Baptist Church, Pawhuska, Okla.—See Building Material.

**Metal Doors.**—Rev. John W. Jennings, Pastor, First Baptist Church, Pawhuska, Okla.—See Building Material.

**Metal Lath.**—Superintendent U. S. Naval Academy, Annapolis, Md.—See Building Material.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until Sept. 26 to furnish resistance wire; electric space heaters, automatic time stamp; push carts; casters; cupboard catches; drawer locks; gate hooks and eyes; steel tapes; foundry, whitewash and oval marine brushes; flags and signals; chair seats; soccer balls; air hose; lumber crayons; lump chalk; diving dresses; life preservers; taffrail logs; colored cotton rags; paint; varnish, etc. Blank forms and information (Circular 2333) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until Sept. 24 to furnish insulated wire and cable; steel conduit; oil pump; varnish brushes; flue expanders; carpenters' braces; breast and hand drills; auger bits; punches; scrapers; pliers; tinners' shears; screw drivers; fire and paint pots; lantern and globes, etc. Blank forms and information (Circular 2332) on application to offices of Panama Canal; Asst. Purchasing Agts. at Fort Mason, San Francisco, Cal.

**Miscellaneous Supplies.**—Everman Stock & Poultry Farm Remedy Co., Gallatin, Mo.—Prices on sulphur, copperas, globar salts, rosin, caustic soda, Barretts No. 25 oil of tar, a light refined oil of coal tar; correspond with manufacturers.

**Molds (Cement Flower Pots), etc.**—D. A. Burwell, Stoval, N. C.—Molds for making cinder blocks and cement flower pots; correspond with manufacturers.

**Moulds (Battery).**—V. K. Bessonette, P. O. Box 191, Waco, Tex.—Moulds for making grids, parts, straps, etc. for batteries.

**Novelty Manufacturers.**—B. A. Allen, Route 3, Box 18, Newport, Ark.—To correspond with manufacturers, to contract for the manufacture of special thimble.

**Office Supplies.**—King Mutual Life Ins. Co., W. H. A. Stalling, Pres., Edenton, N. C.—Office supplies.

**Pad (Horse Collar) Machinery.**—Harper Hardware Co., R. S. Harper, Pres., Lancaster, S. C.—Names and addresses of manufacturers of horse collar pad machinery.

**Paper Making Machinery.**—Florida Paper Mills Co., Gilbert D. Leach, Sec.-Treas., Leesburg, Fla.—In market for cylindrical cookers, Hollander type beating engines of about 2000 lbs. capacity, motors of 60 cycle, three phase, 440 volt type enclosed, and the necessary shafting, pipe, valves, etc., also 2 water tube boilers of 250 to 300 h. p.

**Paving.**—City of Chattanooga, Tenn. Details under Construction News—Road and Street Construction.

**Paving.**—City of Hot Springs, Ark. Details under Construction News—Road and Street Construction.

**Paving.**—Town of Sweetwater, Tenn. Details under Construction News—Road and Street Construction.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

**Paving.**—City of Canton, Miss. Details under Construction News—Road and Street Construction.

**Paving.**—City of Center, Tex. Details under Construction News—Road and Street Construction.

**Paving.**—City of Clarksburg, W. Va. Details under Construction News—Road and Street Construction.

**Paving.**—City of Miami, Fla. Details under Construction News—Road and Street Construction.

**Paving.**—City of Norfolk, Va. Details under Construction News—Road and Street Construction.

**Paving.**—City of West Palm Beach, Fla. Details under Construction News—Road and Street Construction.

**Paving.**—District Commrs., Washington, D. C. Details under Construction News—Road and Street Construction.

**Pipe.**—See Paper Making Machinery. ....

**Pipe.**—See Water Works Equipment.

**Pipe (Gas).**—Acme Carbon Mfg. Corp., 814 Onachita National Bank Bldg., Monroe, La.—Prices on gas pipe in quantities.

**Pipe (Sewer).**—T. H. Mathis, Mayor, Leland, Miss.—Bids until Oct. 2 to furnish f.o.b. Leland, the following pipe for storm sewer construction: double strength, vitrified hub and spigot sewer pipe or concrete, or iron pipe of nearest equivalent size and of equal strength; 5300 ft. of 10-in., 2500 ft. of 12-in., 3320 ft. of 15-in., 2000 ft. of 18-in., 3200 ft. of 21-in., 1700 ft. of 24-in. and 530 ft. of 27 or 30-in. pipe; 37 manholes; 180 inlets; one 36-in., one 30-in., four 24-in., two 18-in., and two 15-in. automatic gate valves; R. A. Phillips, Supt. Water and Light System; Massena L. Culley, Const. Engr., Jackson, Miss.

**Plaster Board.**—Superintendent U. S. Naval Academy, Annapolis, Md.—See Building Material.

**Plate Glass.**—See Building Materials.

**Pulley.**—See Shafting, etc.

**Pumps.**—See Water Works Equipment.

**Rails (Steel).**—Acme Carbon Mfg. Corp., 814 Onachita National Bank Bldg., Monroe, La.—Prices on steel rails for trackage.

**Road.**—Harrison County, Gulfport, Miss., will improve 2 roads. Details under Construction News—Road and Street Construction.

**Road.**—Sabine County, Hemphill, Tex., will build 2 roads. Details under Construction News—Road and Street Construction.

**Road.**—State Roads Comm., 601 Garrett Bldg., Baltimore, Md. Details under Construction News—Road and Street Construction.

**Road.**—Ward County, Barstow, Tex. Details under Construction News—Road and Street Construction.

**Road.**—Louisiana Highway Comm., Baton Rouge, La., will build 2 roads. Details under Construction News—Road and Street Construction.

**Road.**—Lewis County, Freeman Creek Dist., Weston, W. Va., will build 3 roads. Details under Construction News—Road and Street Construction.

**Road.**—Pinellas County Commrs., Clearwater, Fla., will build and improve 8 roads. Details under Construction News—Road and Street Construction.

**Road.**—Citrus County, Inverness, Fla. Details under Construction News—Road and Street Construction.

**Road Machinery.**—Harrison County Board of Supvrs., Gulfport, Miss.—Bids until Oct. 3 for one Austin (or similar make) pressure

planer for use with Fordson tractor in road work; Eustis McManus, Clk.

**Rolling Partitions.**—Rev. John W. Jennings, Pastor, First Baptist Church, Pawhuska, Okla.—Rolling partitions.

**Sander (Self Feed Drum).**—St. Louis-Meramec Canoe Co., Inc., Valley Park, Mo.—To purchase rebuilt or second-hand self feed drum sander.

**Sand Dryers.**—Jacob Spector, Pres., French Sand Dryer Co., Keystone, W. Va.—To contract for the manufacture of sand dryer.

**Saw (Friction), etc.**—The Morrison & Risman Co., Buffalo, N. Y.—To purchase one No. 3 or No. 4 Ryerson friction saw, also roller table, 120 ft. long; state condition, etc.

**Septic Tanks.**—Redland Grove-Homes Co., Citizens Bank Bldg., Homestead, Fla. Interested in receiving bids for construction of septic tanks in development of 160 acre subdivision.

**Service Lines.**—U. S. Veterans' Bureau, Frank T. Hines, Director, Room No. 790, Arlington Bldg., Washington, D. C.—Bids until Sept. 29 for construction, complete, of outside service lines for heating, drainage, hot and cold water supplies and electric current for recreation bldg., and 4 duplex officers' quarters under construction at U. S. Veterans' Hospital No. 79, Dawson Springs, Ky.; drawings and specifications from Maintenance and Operation Div., Room No. 790, Arlington Bldg., Washington, D. C., and for inspection only, at site.

**Sewer.**—Town of Sweetwater, Tenn. Details under Construction News—Road and Street Construction.

**Sewer.**—City of Clarksburg, W. Va.—Details under Construction News—Road and Street Construction.

**Sewer.**—City of Norfolk, Va.—Details under Construction News—Sewer Construction.

**Sewer.**—Town of Sweetwater, Tenn. Details under Construction News—Road and Street Construction.

**Sewer Construction.**—City of Baltimore, Md. Details under Construction News—Sewer Construction.

**Sewerage Improvements.**—Town of Kings Mountain, N. C.—Details under Construction News—Water Works.

**Sewers.**—Town of Avon Park, Fla.—Details under Construction News—Sewer Construction.

**Shafting.**—See Paper Making Machinery.

**Shafting, etc.**—Hackley Morrison Co., Inc. (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase 400 ft. of 3-7/16-in. shafting, one cast iron pulley 64 or 66-in. diam., 26-in. or wider crown face, 4-7/16-in. bore, 40 shafting hangers 4-7/16-in. x 20-in.

**Shears (Steel).**—Atlantic Sign Corp., 5th and Maxwell Aves., Colgate P. O., Baltimore, Md.—Prices on steel shears 52-in. wide to cut metal 14 gauge and up.

**Sidewalk Improvement, etc.**—City of Monticello, Ark. Details under Construction News—Road and Street Construction.

**Steel Sash.**—See Building Materials.

**Tank (Wood, Water).**—H. Eberman, Morgantown, Ky.—To purchase 30,000 to 50,000 gal. wood water tank.

**Tanks (Storage) etc.**—John W. Hankins, P. O. Box 2547, Havana, Cuba.—To purchase 10,000 gal. capacity storage tanks and glass containers for storing and shipping muriatic acid.

**Tile (Concrete and Terra Cotta Drain).**—The Felstone Co., Asheville, N. C.—Data and prices on concrete and terra cotta drain

tile; correspond with manufacturers located near Asheville.

**Tower (Steel).**—H. Eberman, Morgantown, Ky.—To purchase second-hand, 50 to 75-ft. steel tower.

**Trusses (Steel).**—See Building Materials.

**Valves.**—See Paper Making Machinery.

**Ventilators.**—Rev. John W. Jennings, Pastor, First Baptist Church, Pawhuska, Okla.—Ventilators.

**Ventilators.**—Superintendent U. S. Naval Academy, Annapolis, Md.—Ventilators for 10 officers' quarters.

**Water System.**—Redland Grove-Homes Co., Citizens Bank Building, Homestead, Fla.—Interested in receiving bids on water system in development of 160 acres for homesite.

**Water Works Equipment.**—City of Kenedy, Tex., John W. Thames, Mayor—Prices on two 500 gal. per min. pumps, two air compressors, well casing and 6 and 8-in. C. P. Class B pipe.

**Waterworks.**—Town of Kings Mountain, N. C. Details under Construction News—Water Works.

**Waterworks.**—Hidalgo County Water Improvement Dist. No. 4, Edinburg, Tex. Details under Construction News—Water Works.

**Waterworks.**—City of Lampasas, Tex. Details under Construction News—Water Works.

**Well Casing.**—See Water Works Equipment.

**Wire Carrier Cash System.**—Lorick & Lowrance (Jobbers), Columbia, S. C.—To correspond with manufacturers of wire carrier cash system used in mercantile establishments.

**Woodworking Machinery.**—V. K. Bessonet, P. O. Box 19, Waco, Tex.—Special wood working machinery for making boxes for storage batteries.

## Financial News

### New Financial Corporations

Ala., Birmingham—Crowley Investment Co., capital \$10,000, incorporated by Philip Oster, I. V. Smith and others.

Ala., Birmingham—Dixie Investment Co., capital \$10,000, incorporated by J. D. Glasgow, E. N. Hamill and others.

Ala., Birmingham—Leonard Investment Co., capital \$10,000, incorporated by I. V. Smith, Philip Oster, and others.

Ala., Mobile—Commercial Financing Corp. incorporated with J. F. McGowin, Pres.; Henri S. Aldridge, Sec.; J. A. McGowin, Treas.

Ga., Savannah—Realty Loan Co., \$50,000 capital, incorporated by Edgar R. Morrison and Alfred F. King.

Ky., Harlan—Harlan Building & Loan Assn., capital \$200,000, incorporated by W. W. Duffield, H. M. Howard and others.

Miss., Leland—Guarantee Securities Co., capital \$35,000, incorporated by C. M. Quin, Vicksburg, Miss., and Eugene Gerald, Leland.

Mo., Kansas City—Henry A. Auerbach Investment Co., capital \$50,000, incorporated with H. A. Auerbach, Pres.; L. R. Johnson, Sec.; Clarence A. Hirsch, Agent, 415 Delaware St.



Mo., St. Louis—Laclede Insurance Agency, incorporated with \$10,000 capital; A. F. Felker, Prest.; A. P. Stocker, V. P.; L. B. Scherer, Sec.

Mo., St. Louis—Western Finance & Realty Co., capital \$12,000, incorporated by Aaron Smith, Saul L. Kepman and others.

Okla., Hugo—First National Bank of Hugo and Hugo National Bank consolidated under name of Hugo National Bank; capital \$200,000.

Okla., Sapulpa—Geo. Stewart, Pawhuska, is promoting organization of bank with \$100,000 capital.

Okla., Sayre—American Exchange Bank, capital \$25,000, incorporated by E. B. Dugger, and O. B. Thomas, both Sayre; G. B. Cotton of Grymes, Okla.

Okla., Watonga—Security Discount Co., capital \$10,000, incorporated by E. T. Hoberrecht, Ed. S. Wheelock and others.

S. C., Beaufort—South Carolina Agricultural Credit Co., \$100,000 capital, incorporated with R. C. Horne, Jr., Pres.; W. A. Campbell, Sec.-Treas.

Tenn., Elkmont—J. N. Howard, Cash., Farmers' & Merchants Bank, Athens, Ala., and others are organizing bank.

Tex., Amarillo—Amarillo Abstract Co., capital \$10,000, incorporated by C. D. Sears, Ruby McSpadden and others.

Tex., Bishop—Guaranty State Bank of Bishop chartered with \$25,000 capital.

Tex., Corpus Christi—Corpus Christi Building & Loan Assn., capital \$1,000,000, incorporated by H. B. Johnson, E. R. Kleberg and others.

Tex., Dallas—Weaver Investment Co., capital \$10,000, incorporated by E. B. Robinson, Herbert Hedick and others.

Tex., Donna—Guaranty State Bank and Farmers State Bank merged under name of Guaranty State Bank of Donna; Phillip Welhausen, Yoakum, Pres.; M. C. Driscoll, Yoakum, V.-P.; H. H. Onstot and H. S. Ridgeway, Donna, V.-Ps.; R. S. Chambers, Cash.

Tex., Houston—Houston Agricultural Credit Corp., capital \$10,000, incorporated by Ammon Underwood, E. M. Cole and others.

Tex., Marshall—Marshall Building & Loan Assn., capital \$2,000,000, incorporated by M. Turney, Carey M. Abney and others.

Tex., Sherman—Farmers' Mutual Insurance Assn. of Grayson County, incorporated by R. A. Poe, J. C. Brown and others.

Va., Hopewell—Union Trust Co., Petersburg, Va., will establish branch bank at Hopewell.

Va., Newport News—Peoples Holding Co., Inc., \$50,000 capital, incorporated with F. C. Wiatt, Pres., Newport News; C. W. Simson, Sec., Morrison, Va.; Jos. I. Steger and W. N. M. Jones, Newport News.

Va., Norfolk—Norfolk Classified Building Assn. and Heptasophian Building and Loan Assn. and Citizens' Mutual Building Assn., Inc., merged under name of Citizens' Mutual Building Assn.; capital \$10,000 to \$10,000,000; Barton Myers, Pres.; W. T. Curdts, Sec.

W. Va., Wyatt—Bank of Wyatt, \$25,000 capital, incorporated by C. P. Hood and C. F. Lucas, Shinnston; C. H. Hardesty, Fairmont, and E. B. Courtney and R. H. Cather, Wyatt.

### New Securities

Ala., Anniston—School—City, J. L. Wickle, Mayor, postponed sale of \$75,000 bonds. (Lately noted.)

Ark., Arkansas City—Refunding—Desha

County sold \$100,000 6% short term notes to J. L. Arlitt, Austin.

Ark., Fort Smith—Waterworks—City Comsn. sold \$250,000 bonds of Fort Smith Waterworks Dist. to First National Bank, Fort Smith, and National Bank of Commerce, St. Louis, at \$96.55.

Ark., Lake Village—Road—Lake Route Improvement Dist. No. 2 sold \$115,000 6% bonds to W. M. Elkins & Co., Little Rock. (Lately noted.)

Ark., Little Rock—Little Rock Special School Dist. sold \$200,000 5½% bonds to Mercantile Trust Co., St. Louis, at \$100.03. (Lately noted.)

Ark., Newport—Paving—Arkansas Bank & Trust Co., Newport, purchased \$31,000 5½% Street Improvement Dist. No. 8 bonds.

Fla., Bradentown—School—Board of Public Instruction, T. M. McDuffee, Chmn., receives bids Sept. 18 for \$25,000 6% bonds for Oak Hill Special Tax School Dist. No. 4; \$500 denom.

Fla., Bushnell—School—Sumter County Board of Public Instruction, W. T. Eddins, Sec., will receive until Oct. 9 for \$25,000 6% coupon warrants; \$1000 denom.

Fla., Clearwater—School—Board of Public Instruction receives bids Sept. 18 for \$14,000 5½% bonds for Pinellas County Special Tax School Dist. No. 7; \$1000 denom.

Fla., De Land—School—Board of Public Instruction, V. W. Gould, Supt., will receive bids until Oct. 4 for \$20,000 6% bonds for Volusia County Special Tax School Dist. No. 23; \$500 denom.

Fla., Fort Myers—Time Warrants—Walter Woody and Helmerdinger, Cincinnati, O., purchased Lee County time warrants for bridge being constructed across Caloosahatchie River.

Fla., Fort Myers—School—Lee County Board of Public Instruction, J. D. Ferron, Supt., sold \$60,000 6% Lee County Special Tax School Dist. No. 1 bonds to Hanchett Bond Co., Chicago, Ill., at \$63.481; also sold \$20,000 6% Lee County Special School Tax Dist. No. 14 bonds to Lee County Bank Title and Trust Co., Fort Myers, at \$19.710. (Lately noted.)

Fla., Key West—Road and Bridge—Monroe County Commrs. will vote Oct. 16 on \$300,000 bonds.

Fla., Leesburg—Improvement—City, W. E. Harkness, Clk., will receive bids until Sept. 24 for \$97,000 6% improvement extension bonds; \$1000 denom.

Fla., Miami—Highway—Dade County Commrs. will receive bids until Oct. 1 for \$335,000 bonds.

Fla., Orlando—School—Board of Public Instruction, A. B. Johnson, Supt., will receive bids until Sept. 22 for \$20,000 6% bonds for Pine Castle Special Tax School Dist. No. 12; \$1000 denom.

Fla., Sanford—School—Board of Public Instruction, T. W. Lawson, Supt.-Sec., will receive bids until Sept. 22 for \$33,000 6% bonds for Seminole County Special Tax School Dist. No. 2; \$1000 denom.; also receives bids same date for \$20,000 6% bonds for Seminole County Special Tax School Dist. No. 5; \$1000 denom.

Fla., Sebring—Road—Highlands County, Avon Park Township, will vote Oct. 16 on \$50,000 bonds. Address County Commrs.

Fla., South Jacksonville—(Br. Jacksonville)—Municipal—City, Wm. P. Belote, Mayor, will sell \$100,000 bonds for municipally owned street car line.

Fla., Tallahassee—Courthouse—Leon

County Commrs. will call election on bonds to erect \$175,000 courthouse.

Fla., Tampa—Water Works—City sold \$1,350,000 5% bonds to syndicate composed of J. G. White & Co., Inc., B. J. Van Ingen & Co., and P. F. Cusick & Co., all New York, at 98.67.

Fla., West Palm Beach—Road, Bridge, etc.—Palm Beach County Commrs., Fred E. Fenno, Clk., sold \$150,000 5½% certificates of indebtedness to A. C. Allyn & Co., Chicago, at \$147,000 and accrued interest; \$75,000 6% Road and Bridge Dist. No. 11 bonds to Seasingood & Mayer, Cincinnati, at \$78.885 and accrued interest; \$57,000 Road and Bridge Dist. No. 15 6% bonds to Sidney Spitzer Co., Toledo, at \$54.875. (Lately noted.)

Ga., Bowden—Sewers—City will vote Oct. 2 on \$15,000 bonds. Address The Mayor.

Ga., Thomasville—School—City will vote Sept. 27 on \$155,000 bonds. Address The Mayor.

Ga., Waynesboro—Paving—City contemplates \$50,000 bond issue. Address The Mayor.

Ky., Frankfort—School Improvement—City Board of Education, H. V. McChesney, Pres., will receive bids until Oct. 1 for \$125,000 5% bonds; \$1000 denom.

La., Atchafalaya—Levee—President, Atchafalaya Levee Board will sell \$300,000 bonds.

La., Baton Rouge—Road—East Baton Rouge Parish, 10th Ward Special Dist., will vote Dec. 8 on \$25,000 bonds. Address Police Jury.

La., Kaplan—Drainage—Live Oak Drainage Dist., Vermillion Parish, Wm. Gooch, Pres., will receive bids until Oct. 1 for \$75,000 5½% bonds; \$1000 denom.

La., Kaplan—Drainage—Long Island Drainage Dist., Vermillion Parish, G. A. Marais, Pres., will receive bids until Oct. 1 for \$225,000 5½% bonds; \$1000 denom.

La., Minden—Sewerage—City sold \$105,000 6% bonds to M. W. Elkins & Co., Little Rock. (Lately noted.)

La., Vidalia—Roads—Concordia Parish rejected bids for \$100,000 5% bonds; \$1000 denom.; Jno. Dale, Jr., Secy., Police Jury. (Lately noted.)

Md., Rockville—Street Improvement—Montgomery County Commrs., Benj. C. Perry, Pres., will receive bids until Sept. 25 on \$4500 4½% Alta Vista street improvement bonds.

Miss., Crystal Springs—Sewerage—City sold \$30,000 5½% bonds to Paul Chambers, Jackson, at par and accrued interest. (Lately noted.)

Miss., Mount Olive—School—Mount Olive Consolidated School Dist. voted \$7000 bonds. Address Dist. School Trustees.

Miss., Rolling Fork—Road—Sharkey County sold \$100,000 Second Supervisors Separate Road Dist. bonds to Sutherland, Barry & Co., Inc., New Orleans. (Lately noted.)

Miss., DeLisle—School—Harrison County Board of Supervisors sold \$10,000 DeLisle Consolidated School Dist. bonds to First National Bank, Gulfport.

Miss., Jackson—General Purposes—State Bond and Improvement Comsn. sold \$1,500,000 5½% short term notes to Merchants Bank and Trust Co., Jackson, at premium of \$1800.

Miss., Jackson—Bridge and Road—Hinds County will vote Oct. 1 on \$260,000 bonds. Address County Board of Supervisors. (Lately noted.)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



Miss., Louisville—Water and Lights—City sold \$30,000 6% bonds to A. K. Tigrett & Co., Memphis, Tenn.

Miss., Bogue Chitto—School Equipment—Bogue Chitto Consolidated School Dist. will vote Sept. 27 on \$7000 bonds. Address Lincoln County Board of Supervisors, Brookhaven.

Mo., Holliaday—Electric—City will vote on bonds to construct transmission line. Address The Mayor.

Mo., Jefferson City—Road—State Board of Fund Commrs., L. D. Thompson, State Treas., member, will receive bids until Nov. 1 for \$5,000,000 4½% state road bonds; \$1000 denom.

Mo., Mountain Grove—Electric—City defeated \$35,000 bond issue. Will call new election. Address The Mayor. (Lately noted.)

Mo., Springfield—Public Improvements—City contemplates voting on bonds for public improvements. Address The Mayor.

Mo., Joplin—Memorial Hall—City, Taylor Snapp, Mayor, sold \$250,000 5% bonds jointly to Kauffman-Smith-Emert Co., St. Louis, and Harris Trust & Savings Bank, Chicago, at premium of \$253. (Lately noted.)

Mo., St. Louis—Revetment—Stifel-Nicolaus Investment Co., St. Louis, purchased \$176,000 bonds at \$179,000.

N. C., Andrews—Electric—Town will issue \$350,000 bonds; George Stillman, Clerk.

N. C., Bryson City—Road—Swain County Commrs., S. E. Varner, Chmn., will receive bids until Oct. 15 for \$200,000 5½% bonds of Forneys Creek Township Road Dist.; \$1000 denom.

N. C., Bakersville—Road—Mitchell County Board of Road Commrs., W. B. Ellis, Sec., will receive bids until Sept. 25 on \$10,000 bonds; bids wanted on both 5% and 6% bonds.

N. C., Marion—Courthouse—McDowell County Board of Commrs., J. L. Lackey, Chmn., sold \$60,000 5½% bonds to Breed, Elliott & Harrison at premium of \$222. (Lately noted.)

N. C., Raeford—Street Improvement—City, A. F. Gore, Clk., sold \$70,000 6% bonds to C. W. McNear & Co., Chicago, at premium of \$439.50. (Lately noted.)

N. C., Red Springs—Street Improvement—City sold \$65,000 bonds to C. W. McNear & Co., Chicago, at premium of \$139.50.

N. C., Rutherfordton—Street and Sewer—Town, C. F. Geer, Mayor, sold \$50,000 street paving bonds at par and \$74,000 sewer bonds at premium of \$410 to Prudden & Co., Toledo, O. (Lately noted.)

N. C., Southport—Road—Brunswick County Commrs. will receive bids until Sept. 24 for \$200,000 5½% bonds.

Tenn., Sweetwater—School—City sold \$75,000 bonds to erect school. Address The Mayor.

Okla., Claremore—Road—Rogers County voted \$650,000 bonds. Address County Commrs. (Lately noted.)

Okla., Holdenville—Public Improvements—City will vote Sept. 18 on \$65,000 bonds. Address The Mayor.

Okla., McAlester—Funding—McAlester School Dist. No. 80 sold \$55,000 bonds to Honnold Investment Co., Oklahoma City, at premium of \$1140.

Okla., McAlester—Funding—Pittsburg County will sell \$47,000 bonds.

Okla., Port—Port Consolidated School Dist. voted \$5000 bonds for purchase of 6 motor trucks. Address Dist. School Trustees.

S. C., Ebenezer—School—Ebenezer School

Dist. will vote in October on \$5000 bonds; M. C. Barton, County Supt. of Education, Florence.

S. C., Fort Mill—Street—Town Clerk receives bids Sept. 18 for \$15,000 bonds; \$1000 denom.

S. C., Spartanburg—School—Cooperative School Dist. No. 97 will vote Sept. 22 on \$9000 bonds; W. H. Lee, A. E. Hendley and E. Lancaster, Trustees.

S. C., Sumter—Road and Bridge—Austin, Grant & Ogilby, Inc., and Eldredge & Co. are offering \$500,000 Sumter County 5% road and bridge bonds at 100 and interest. (Lately noted.)

Tenn., Greeneville—Improvement—Town, W. C. Thacker, Recorder, receives bids Sept. 19 on \$66,000 5½% town improvement bonds and \$74,123.66 6% district improvement bonds.

Tenn., Lawrenceburg—Electric Plant—City voted \$80,000 bonds. Address The Mayor.

Tenn., Lewisburg—School—Marshall County will vote Sept. 29 on \$75,000 bonds. Address County Commrs.

Tenn., Manchester—Road—Coffee County sold \$30,000 5% bonds to Powell Co. at 104.23. (Lately noted.)

Tenn., Sweetwater—School—Monroe County will vote Nov. 6 on \$45,000 bonds. Address County School Commrs.

Tex., Abilene—Warrants—City sold \$8500 6% garbage incinerator warrants to J. L. Arlitt, Austin; \$500 denom.

Tex., Abilene—Road—Taylor County will vote Oct. 16 on \$350,000 bonds. Address County Commrs. (Lately noted.)

Tex., Alice—Funding—City sold \$7500 6% funding warrants to J. L. Arlitt, Austin; \$500 denom.

Tex., Austin—School—State Board of Education purchased 24 bond issues aggregating \$144,860.

Tex., Cameron—Road and Bridge—Milam County will vote on \$125,000 bonds; A. F. Mitchell, County Engr.

Tex., Conroe—Road—Montgomery County sold \$120,000 bonds to Dunn & Carr, Houston.

Tex., Eastland—Warrants—City sold \$18,500 6% water purifying system warrants to J. L. Arlitt, Austin; \$500 denom.

Tex., Ennis—Water—City voted \$50,000 bonds. Address The Mayor. (Lately noted.)

Tex., Fort Worth—Auditorium—City plans to vote in December on bonds for auditorium. Address The Mayor.

Tex., Galveston—Refunding—Hallgarten & Co. and Kountze Bros., are offering \$488,000 5% City of Galveston refunding bonds.

Tex., Greenville—Reservoir—City, Walter Hicks, Engr., defeated \$325,000 bonds. (Lately noted.)

Tex., Marshall—Paving—City will vote Oct. 9 on \$50,000 bonds. Address The Mayor or H. S. Rice, City Sec.

Tex., Meadow—School—Meadow Independent School Dist. sold \$40,000 6% bonds to Southwestern Securities Co. at par and accrued interest.

Tex., Taylor—Natatorium, etc.—City rejected bids for \$50,000 5% bonds. Address The Mayor.

Va., Norfolk—Municipal—City, Wm. H. Causey, Mgr., opened bids on \$3,955,000 bonds including \$2,000,000 for port terminal and \$1,955,000 municipal improvements; purchased by Trust Co. of Norfolk, at \$3,800,000. (Lately noted.)

Va., Richmond—Water and Gas—City con-

templates voting on \$1,500,000 bonds. Address Mayor Ainslie.

W. Va., Charleston—School—State Sinking Fund Comsn. sold \$300,000 Charleston Independent School Dist. bonds to Bankers Trust Co. and Pillottson & Wolcott, New York, at par with accrued interest plus premium of \$1047.

W. Va., Charleston—Highway—State, E. F. Morgan, Gov., will receive bids until Sept. 29 for \$5,000,000 4½% bonds. (Previously noted.)

W. Va., Winfield—Road—Putnam County, Pocataligo Dist., contemplates voting on \$100,000 bonds. Address County Commrs.

## Financial Notes

American National Bank and Wagoner County Bank, Wagoner, Okla., merged under name of American National Bank; \$50,000 capital.

Citizens Interstate Bank, Mt. Ranier, Md., converted into First National Bank of Mt. Ranier.

Citizens Loan and Savings Assn., Dayton, Tenn., increased capital from \$600,000 to \$1,500,000.

Shaw State Bank, 1711 S. 39th St., St. Louis, plans to increase capital from \$100,000 to \$120,000; Fred Krone, Pres.; F. S. Hummel, Sec.

United Railways Savings and Loan Assn., 3809 Park Ave., St. Louis, Mo., plans to increase capital from \$7,000,000 to \$8,000,000; Jas. Adkins, Pres.; Robt. J. Richardson, Sec.

Unity Loan & Investment Co., St. Louis, Mo., increased capital from \$15,000 to \$50,000.

## Trade Literature

### Convertible Crane Excavator.

Bulletins 13, 14, 15 and 16 issued by the Bay City Dredge Works, Bay City, Mich., give full particulars about the Bay City convertible crane excavator, Model 16-B, and its various attachments which include a ¾ yard shovel type dipper, a skimmer scoop for stripping or road and street excavation, a clamshell bucket and a ditcher scoop for sewer, trench or ditch excavation. The new machine has already attracted considerable attention from contractors who have viewed its operations with interest and approval. The bulletins carry illustrations showing the excavator engaged upon different jobs.

### Single Line Grab Buckets.

Blaw-Knox single line buckets manufactured by the Blaw-Knox Company, Pittsburgh, Pa., are comprehensively illustrated and described in Bulletin 812 recently issued. This is one of many types of clamshell or grab buckets manufactured by this organization and carried in stock in all standard sizes and for all kinds of service. It is different because the same line is used for closing the bucket and for supporting the bucket during the opening movement. It operates perfectly, it is stated, without the use of either locks, catches or other sliding parts which might get out of order and cause delays while awaiting repairs. The several advantages of these buckets are adequately related. The pictures are fine.

(Continued on page 104)

# Construction Engineering Problems of Enterprises to be Established in the South

A REPRESENTATIVE ORGANIZATION OF TECHNICAL AND PRACTICAL MEN, WITH TWENTY-FIVE YEARS SUCCESSFUL EXPERIENCE, WHICH HAS BEEN RESPONSIBLE FOR THE DESIGNING AND INSTALLING OF SOME OF THE MOST IMPORTANT PLANTS IN SOUTHERN TERRITORY.

(Letter to Manufacturers Record.)

THE MANUFACTURERS RECORD  
Baltimore, Md.

Gentlemen:—A representative of The Manufacturers Record, who has some knowledge of the character of the organization of A. M. LOCKETT & COMPANY, LTD. and of the kind of work which this concern has successfully performed, has stated to me that there are, at present, many people in the South—and some in the North—who contemplate engaging in enterprises in the South, who would be glad to make use of our experience and facilities in the carrying out of their plans, if they knew the service we are in position to give.

In order to ascertain whether or not your able representative is correct in his impressions, I am going to ask you to publish the following statement:

In 1899 I started the business of A. M. LOCKETT & COMPANY upon well-considered and carefully-prepared plans. These plans have been faithfully executed and this company has attained a degree of success which proves that the original idea was a good and feasible one.

**The basic principle which was put into practice by our organization was that the selection and installation of power-plant equipment is an engineering and not a merchandising job.**

It was believed that the safest people to determine what a machine can be depended upon to do and how it should be installed and operated in order to do that thing, are men trained in the plants of the manufacturers, who are thoroughly familiar with the limitations of successful use of the apparatus.

It was believed, and is still believed, that if the experience and knowledge necessary for the proper selection, correct installation and practical operation of the various machines, apparatus and materials, which enter into power-plant designs, could be collected in one organization, so that there would be no division of responsibility, the ideal conditions for success would be established.

At the time when this project was conceived I was Assistant Sales Manager of the Henry R. Worthington Company and had been in the employ of that Company in various engineering positions for about twelve years.

I was able to effect an arrangement with Henry R. Worthington and the Babcock & Wilcox Company under which I took over the branch offices of these two companies located in New Orleans; with the understanding that I would undertake not only the sale of the machinery and apparatus manufactured by these two companies, but would undertake complete contracts involving the use of such apparatus. To make our line complete, I arranged agencies from time to time with other well-known concerns; such as the Terry Steam Turbine Company, the Griscom-Russell Company, the Spray Engineering Company, the Frick Company, and the Robins Conveying Belt Company; until the Lockett Company was in the pos-

ition of being the direct representatives of the manufacturers of equipment for practically every kind of power plant needed in this section of the country.

We have, at all times, had full access to the engineering organizations of these companies and there only remained, in order that our personnel organization be complete, that the engineering staff of the Lockett Company itself should be men thoroughly trained in the lines of the various manufacturers represented.

The basis upon which this organization has been built up is to select from the graduates of schools of technology young men recommended by the heads of the mechanical engineering departments, put these young men through apprenticeship courses in our drafting rooms, in the shops of the manufacturers and in field erecting and, after thoroughly training them, to put them forward as sales engineers. It has been the policy to pick them young and train them unhandicapped by any previous training which might have been at variance with the methods of the people we represent or of the principles this company lives up to.

This sales engineering staff has been fortified by the employment of thoroughly experienced draftsmen, erecting men and mechanics; and to-day we have an organization consisting of men who are competent, loyal to this company and honorable in their dealings with our clients.

In the program of publicity, this statement will be followed by detailed information as to what this company has done; but at this time I wish to say that in the matter of pumping water and other liquids, whether for irrigation, drainage, municipal and industrial supply or miscellaneous industrial purposes, it is believed that this company has had the most comprehensive experience of any organization in the whole country.

In the matter of power plants for industries and for electric lighting and railways, this company has been responsible for many conspicuous and successful installations.

It has been actively engaged for years in the designing and constructing of refrigerating and ice-making plants.

It has been responsible for radical improvement in the efficiency of wood-preserving plants; and it has been successful in the design and construction of fuel-oil pumping and burning apparatus.

With the variety of engineering ability in its employ, it is in position to bring to bear upon almost any mechanical engineering problem the talent of one or more specialists, whose knowledge of the subject can be safely relied upon.

If the foregoing statement interests any of your readers, we will be glad to hear from them.

Yours very truly,

A. M. Lockett, President,  
A. M. LOCKETT & CO., LTD.



**Electric Industrial Trucks.**

Electric industrial trucks and tractors manufactured by the Crescent Truck Company, of Lebanon, Pa., are finely illustrated and fully described in their new catalogue which is a superior specimen of the printer's art. The introduction tells all about the advantages of these trucks in industrial establishments and names several large manufac-

turers who are using them. One of these trucks, it is stated, usually takes the place of three or four men, although sometimes it replaces as many as ten men using hand trucks. The factory where the trucks are built is modern throughout and contains the latest equipment for the production of its output. Appreciative letters from users of these trucks are shown on one of the pages of the book.

**District Managers Appointed.**

The Pawling & Harnischfeger Co., Milwaukee, Wis., builders of traveling cranes and hoists, lumber handling cranes and hoists, and excavating machinery, have appointed N. B. Norris as manager of their office at New Orleans, La., which is situated at 938 Whitney-Central Building. This company have also opened a new office at 1124 Book Building, Detroit, Mich., with James Van Buskirk in charge thereof.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

**Heating Contract Awarded.**

The Hammond Heating Company, Incorporated, Cincinnati, Ohio, were recently awarded the contract for heating the new grade school building at North Hampton, Ohio, with the Hammond fan furnace warm air system of heating and ventilating, the job being let after competition.

**Now in New Position.**

E. C. Morse, Government Director of Sales during the Wilson Administration, and previously in the Boston and Washington offices of the Westinghouse Electric & Manufacturing Co., has joined the staff of the Triumph Electric & Manufacturing Co., Cincinnati, Ohio, as vice president in charge of sales.

**Langdon Gibson.**

Langdon Gibson, who until two years ago was production manager of the General Electric Co., (Schenectady Works), died September 5 at Cribhaven, Maine, from cerebral hemorrhage, at the age of 58 years. Mr. Gibson, who was noted as an explorer, and was a brother of Charles Dana Gibson, the artist, had been associated with the Company for 31 years and was widely known in the industrial world. His exploration work included participation in the Stanton expedition's successful completion of a journey through the Grand Canyon of the Colorado River in 1889 and also participation in Admiral Peary's second expedition to explore and map the northern coast of Greenland. Mrs. Gibson and two sons survive him.

**Representative Appointed.**

Walter A. Deems on September 15 was appointed by Manning, Maxwell & Moore, Inc., to be representative of their machine tool department for the New York district with headquarters at 100 East 42nd St., New York City. For the last ten years Mr. Deems has been master mechanic of the Baltimore & Ohio Railroad's New York terminals and of the Staten Island Rapid Transit Co., from which companies he resigned on the same date to accept his new position.

**A Non-Glare Headlight Reflector.**

The Hilco reflector is a new device for automobile lights having two separate reflectors divided by a panel, this arrangement, it is stated entirely eliminating glare from headlights. It was invented and patented by C. N. Weems, an engineer with the Southern Bell Telephone & Telegraph Co. in Atlanta and it is to be placed on the market by the A. E. Hill Manufacturing Co., of that city which has purchased the patent and will now prepare to distribute the new reflectors made under it. It is claimed for this method of reflecting the light of automobiles that it affords complete illumination of the road but without in any way blinding persons coming toward the machine. The company has \$300,000 capital stock. Machines have been built to make the reflectors and extensive production of them is expected early in 1924.

**Small Steam Shovel Valuable On Unusual Job.**

An underground fire in the Pittsburgh coal seam near Charleroi, Pa., is expected to be extinguished after nearly a year of effort. The fire area is about six acres and it was finally decided to make an open to cut it off, all other known means of checking the fire having been tried in vain. The trench is about 1000 feet long and averages about 45 feet deep at the ends, within 50 feet of crop, and running up to 65 feet of overburden at the center of the cut. When finished it will average 65 feet wide on top and 25 to 30 feet wide at the top of the coal. Material handle at the center of the cut included about 15 feet of yellow clay, 20 feet of hard shale, 12 feet hard sandstone, 12 feet of hard slate, 3 feet of very hard sandstone and 3 feet of hard slate over the coal. Drilling was done and the hard material broken up with dynamite and since February 10 last, when the F. E. Welsh Contracting Co., Inc., of Cleveland, Ohio, contractors, began work about 70 per cent of the total job of 80,000 cubic yards has been handled with equipment consisting of an Osgood 29, one yard continuous tread revolving steam shovel, two 4-car trains of three yard cars and two 12-ton dinkies of 36 inch gauge. Yardage runs as high as 800 yards a day, the shovel handling material often too large to pass through the dipper. Progress is slow and difficult because of cave-ins and mine gas and gas fumes leaking through from the fire. Some of the material loaded is too hot to be touched. The same shovel has proved its worth because of its flexibility of movement according to the condition of the fire area. It was built by the Osgood Company of Marion, Ohio.

### Farmers Should Organize to Reduce Cotton Acreage.

B. P. TEMPLETON, Delvalle, Texas.

I am very much impressed by Senator Dial's statement on changes and methods of buying and selling cotton as published in the MANUFACTURERS RECORD recently.

We may theorize to the limit, organize cooperative warehousing and selling, but all that may or can be done is only palliative and of little relief to the cotton producers, as long as there is a surplus bale of cotton in sight. As long as we increase the acreage we will produce surpluses in spite of adverse weather conditions and all the damage the weevils and other insects can do.

The people of Europe and Asia are to a large extent broke and poverty stricken and they cannot buy half the cotton clothes they need, and in Africa and tropical South America they do not need much cotton clothing, although the masses wear little of anything else.

We will never get a fair price for our cotton as long as we produce more than the world can consume annually. \*It is the amount of the surplus that fixes the price, if the surplus runs low the price rises, if it is high the price falls regardless of business and trade conditions.

Instead of organizing to control marketing we should organize and apportion the acreage which should be reduced,

forty per cent of the present acreage. With fewer acres there would be better cultivation and fertilization, more home supplies.

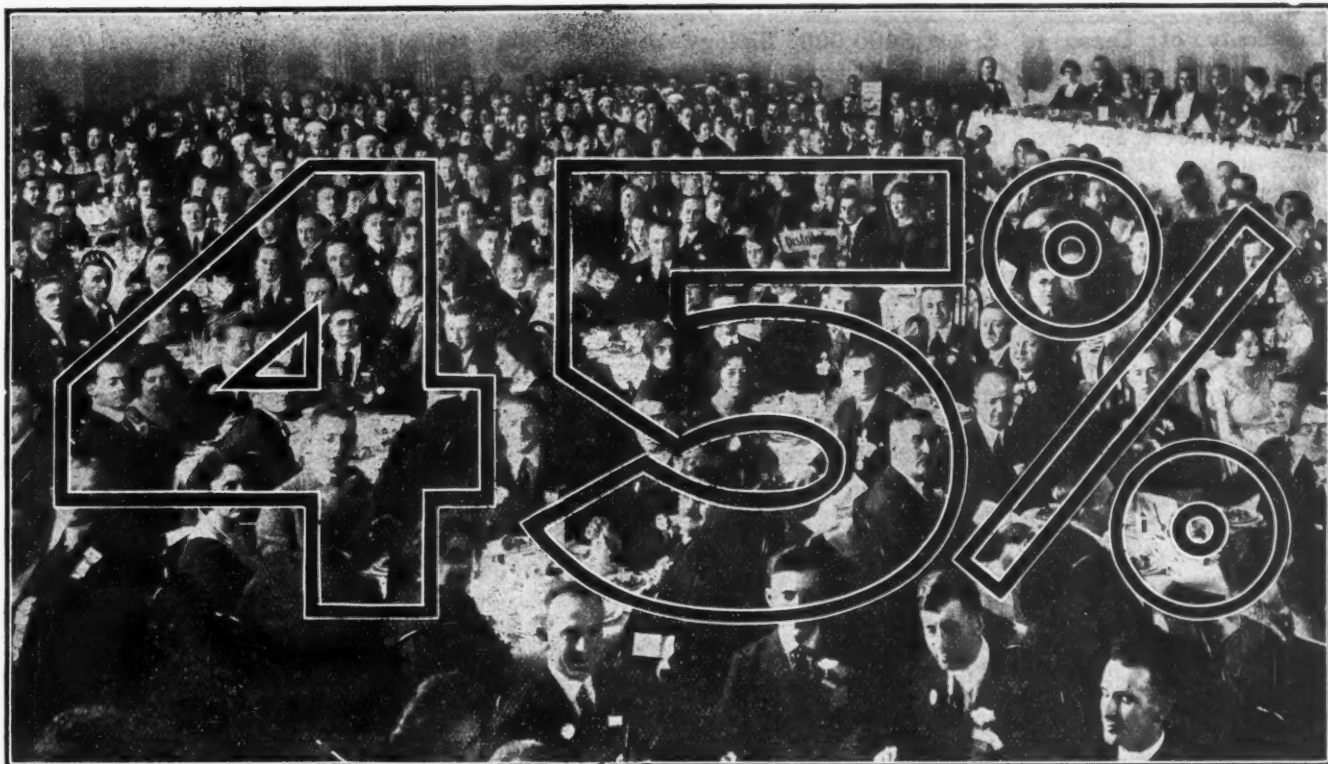
When the cotton farmers know there is a big surplus in the way they yet fail to do the only sensible thing, that is, reduce the acreage until there is no surplus produced.

I know the reason they do not reduce. Every time the idea is suggested all of them say they are going to reduce and each one expects everybody else but himself to reduce and he decides to plant all he can. Each and every one of them from the Rio Grande to the Appomattox reason and act exactly alike. They expect every one else to reduce but themselves. The result is an increase of acreage when there is a surplus of 5 or 6 million bales in sight.

As the surplus decreases the acreage increases until the surplus is restored and prices reduced below the cost of production.

The Elmore Thread Co. of Spindale, N. C. has incorporated with a capital stock of \$125,000. This company is a subsidiary of the Elmore Co. of Spindale, and was organized as a matter of convenience to the parent company, of which K. S. Tanner is president. The Elmore Co. produces fine mercerized yarns.





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9. Safety bulletins, danger signs, safety pamphlets and books, The Travelers Standard.
10. Payroll envelope enclosures to keep the subject of Group Insurance before employees.
11. Christmas greeting cards for the use of employers among employees.
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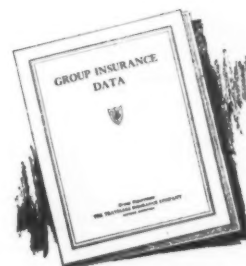
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### University of Texas to Erect \$400,000 Biology Building.

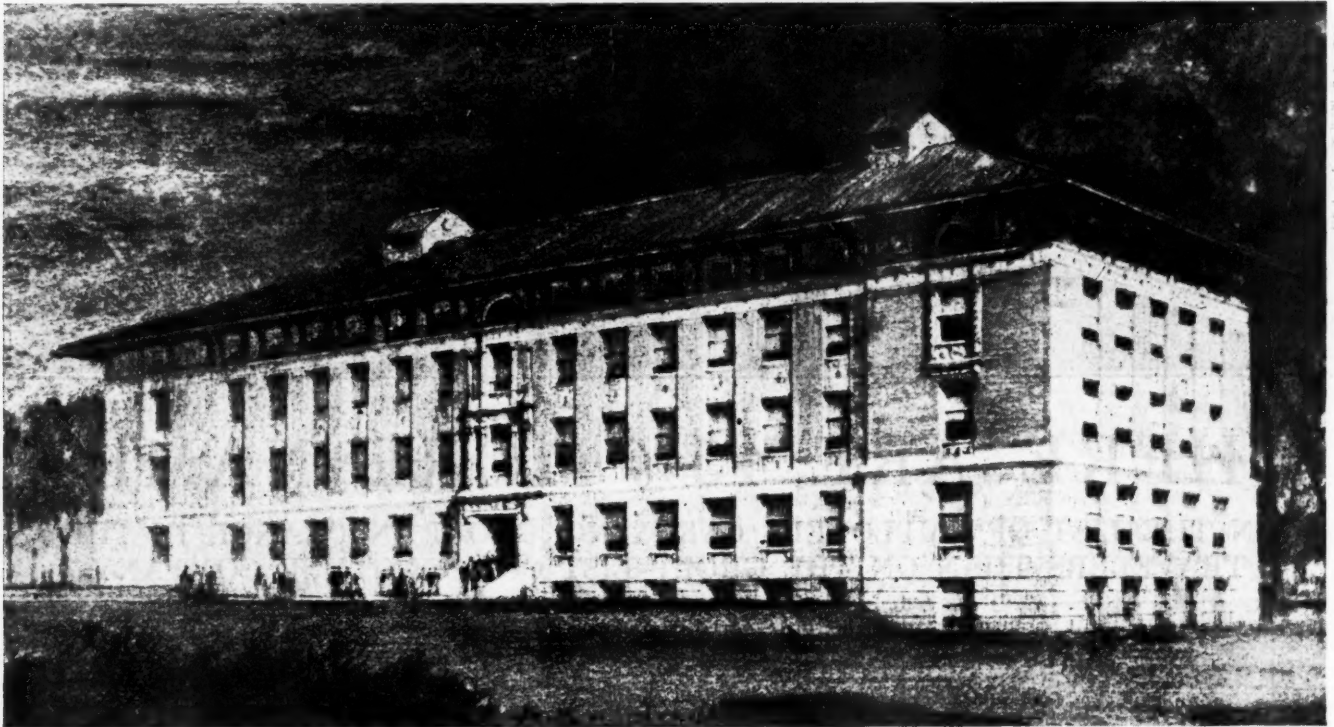
Contracts have recently been awarded for the erection of a biology building at Austin, for the University of Texas, which will cost about \$400,000 to complete. The structure will be 192 by 66 feet, four stories and basement, fireproof, of reinforced concrete, brick, terra cotta and cut stone, with a tile roof, tile, linoleum and cement floors, metal doors and vaults. It will be equipped with a steam heating plant, electric lighting facilities and push button elevators.

The Herbert M. Greene Co. of Dallas is the architect and Wattinger Bros. of Austin are the general contractors at

\$318,640. Other contracts have been awarded as follows: Plumbing, Chalkley Bros., San Antonio, at \$20,679; heating, John L. Martin, Austin, at \$14,558; elevators, Otis Elevator Co., New York, at \$4260.

An accompanying illustration presents a view of the building as it will appear when completed.

The First Methodist Church of Wichita Falls, Tex., plans to erect an auditorium of brick, stone and steel to cost \$225,000. Sanguinet, Staats, Hedrick & Pate of Wichita Falls, are the architects.



NEW BIOLOGY BUILDING TO BE ERECTED AT AUSTIN FOR UNIVERSITY OF TEXAS.

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TRUCK BARREL MACHINERY

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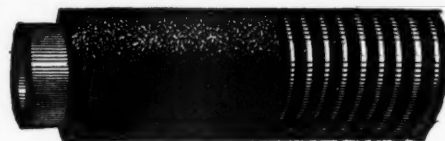
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The "Cylinder" machine, which forms a wet sheet by picking up the wet pulp on a wire covered cylinder, revolving in a vat of water and pulp. The sheet is removed by a woolen blanket (felt), which revolves in slight contact with the cylinder.

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# PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS

Bids close October 1, 1923.

U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 A. M., October 1, 1923, and then opened, for furnishing one steam boiler, with fixtures, stack, etc., for U. S. Dredge UPATOI, at Columbus, Ga. Further information on application.

Bids close September 29, 1923.

**SEALED PROPOSALS**, will be received at the U. S. Veterans' Bureau, Room No. 790, Arlington Building, Washington, D. C., until noon, September 29, 1923, and then there publicly opened, for the construction, complete of outside service lines for heating, drainage, hot and cold water supplies and electric current for Recreation Building and four duplex Officers' Quarters under construction at the U. S. Veterans' Hospital No. 79, Dawson Springs, Kentucky. Drawings and specifications may be obtained only upon application to the Maintenance and Operation Division, Room No. 790, Arlington Building, Washington, D. C. Deposit with application of a certified check or postal money order for \$10.00, payable to the Treasurer of the United States, is required as security for the safe return of drawings and specifications within ten days after date of opening proposals. Drawings and specifications will be available (for inspection only) at the U. S. Veterans' Hospital No. 79, Dawson Springs, Kentucky. FRANK T. HINES, Director. August 31, 1923.

Bids close October 4, 1923.

**SEALED PROPOSALS** will be received at the U. S. Veterans' Bureau, Room No. 791, Arlington Building, Washington, D. C., until noon, October 4, 1923, and then there publicly opened, for the construction, complete, of Recreation Building, and the Alteration and Addition to Garage for Attendants Quarters at the U. S. Veterans' Hospital No. 32, Mt. Alto, Washington, D. C. This work will include excavation and grading, concrete work, stucco, plaster, carpentry, painting and glazing, wrought iron work, plumbing, heating and electric work. Drawings and specifications may be obtained only upon application to the Maintenance and Operation Division, Room No. 791, Arlington Building, Washington, D. C. Deposit with application of a certified check or postal money order for \$20.00, payable to the Treasurer of the United States, is required as security for the safe return of drawings and specifications within ten days after the date of opening proposals. There is on file in the U. S. Veterans' Bureau, Maintenance and Operations Division, Room No. 791, Arlington Building, Washington, D. C., and at the office of the Medical Officer in Charge, U. S. Veterans' Hospital No. 32, Mt. Alto, Washington, D. C., a set of the drawings and specifications for inspection. Frank T. Hines, Director, September 5, 1923.

Bids close October 16, 1923.

Sealed proposals will be received and publicly opened by the Director of the U. S. Veterans Bureau in the office of the Quartermaster General, 2306 Munitions Building, Washington, D. C., at 11 A. M., October 16, 1923, for additional buildings to U. S. Veterans Hospital No. 78, North Little Rock, Arkansas. Work will include construction of Disturbed Patients' Building, two Continued Treatment Buildings, Recreation Building, Tuberculosis Cottage, Male Attendants' Quarters, and additions to Nurses' Quarters and to the Kitchen and Mess, together with roads, water, sewer and electric lines serving same. Buildings will be fireproof, constructed of brick, tile and reinforced concrete, complete with all fixed plumbing, heating and lighting equipment. Plans and specifications may be obtained after September 12, 1923 from the Quartermaster General, 2306 Munitions Building, Washington, D. C., or the Constructing Quartermaster, U. S. Veterans Hospital No. 78, North Little Rock, Arkansas, upon deposit of \$100. One set of plans and specifications will be on exhibition at the offices of the Quartermaster Supply Officers at 1819 West Pershing Road, Chicago, Illinois, Second and Arsenal Streets, St. Louis, Missouri, and Poland and Dauphine Streets, New Orleans, Louisiana. Frank T. Hines, Director—September 12th, 1923.

**RATE:** 35 cents per line per insertion.

**PUBLICATION DAY:** Thursday.

**FORMS CLOSE** 4 P. M., Monday.

**DAY LETTER:** When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

**THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:**

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close October 17, 1923.

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., September 15, 1923.—**SEALED PROPOSALS** will be opened in this office at 3 P. M., October 17, 1923, for the construction of a one-story, brick and tile non-fireproof Post Office building, approximately 62 by 64 feet in size, at Dawson, Georgia. Drawings and specifications may be obtained from the Custodian of the site at Dawson, Ga., or at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close October 16, 1923.

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., September 14, 1923.—**SEALED PROPOSALS** will be opened in this office at 3 p. m., October 16, 1923, for construction (except mechanical equipment) of additional buildings, including Patients' Cottages, Infirmary, Recreation Building, Kitchen and Mess Hall, of terra cotta and stucco construction, and Store House and Officers Quarters of wood construction, for the National Home for Lepers at Carville, La. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

Bids close October 16, 1923.

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., September 14, 1923.—**SEALED PROPOSALS** will be opened in this office at 3 P. M., Oct. 16, 1923, for the mechanical equipment of additional buildings including Patients' cottages, Infirmary Building, Recreation Building, kitchen and mess hall, store house, and Officers' quarters, and the extension and remodeling of the outside services including heating, electric, water supply, sewage disposal, refrigeration, etc., and the construction complete of the power house, including the mechanical equipment, at the National Home for Lepers, Carville, La. Specifications and drawings may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

Bids close October 16, 1923.

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., September 14, 1923.—**SEALED PROPOSALS** will be opened in this office at 3 P. M., Oct. 16, 1923, for furnishing and installing one new engine, generator, etc., in the National Home for Lepers, Carville, La., in accordance with specification, copies of which may be had at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close November 1, 1923.

## \$2,863,000 Gold Bonds

PINELLAS COUNTY, FLORIDA

Clearwater, Fla.

Sealed bids will be received by the Board of County Commissioners, in care of the undersigned, in Clearwater, Florida, until 10 o'clock, A. M., November 1st, 1923, for \$2,597,000 Pinellas County Highway Bonds, maturing annually July 1. \$43,000 1929, \$60,000 1930 and 1931, \$65,000 1932 and 1933, \$70,000 1934, \$75,000 1935 and 1936, \$80,000 1937, \$85,000 1938, \$90,000 1939, \$95,000 1940, \$100,000 1941 and 1942, \$105,000 1943, \$110,000 1944, \$115,000, 1945, \$120,000 1946, \$125,000 1947, \$130,000 1948, \$135,000 1949, \$140,000 1950, \$150,000 1951, \$155,000 1952, \$165,000 1953 and \$84,000 1954, and \$266,000 Pinellas County Bridge Bonds, \$86,000 of said bonds maturing July 1, 1954 and \$180,000 thereof July 1, 1955.

All bonds dated July 1, 1923; denomination \$1000; principal and semi-annual interest (J and J1), payable in New York City in gold; coupon bonds with privilege of registration as to principal only. Bonds will bear the lowest interest rate (5% 5/4% or 5 1/2%). All bonds awarded upon any "all or none" bid shall bear the same rate.

Legality will be approved by Chester B. Masslich, Esq., New York City, whose approving opinion will be furnished to purchaser without charge.

The bonds are general obligations of the county, payable from an unlimited tax. Authorized by vote of electors: Highway Bonds 2687 for. 423 against; Bridge Bonds 2714 for. 403 against.

Bids are required on forms which will be furnished by the undersigned, and must be enclosed in a sealed envelope marked "Proposal for Bonds" and be accompanied by a certified check for 2% of the face value of bonds bid for, payable to the order of the Clerk of the Board of County Commissioners, and drawn upon a bank or trust company doing business in Florida, or upon a national bank in any place, or a bond running to the Board of County Commissioners and satisfactory to them with sureties, that the bidder will comply with the terms of his bid. Under the law, any bidder whose bid shall be accepted, shall, with his sureties if a bond be given, be liable to the county for all damages on account of the non-performance of the terms of his bid. The bonds will be delivered at place of purchaser's choice on or about December 1st, 1923. The right to reject any or all bids is reserved.

J. N. BROWN.

Clerk, Board of County Commissioners.

Bids close October 2, 1923.

## \$75,000 6% Coupon Notes

ST. LUCIE COUNTY, FLORIDA

Fort Pierce, Fla.

Sealed bids will be opened on October 2, 1923, for \$75,000 Six per cent. semi-annual coupon Court House Negotiable Notes of St. Lucie County, Florida. Principal and interest payable to bearer at United States Mortgage & Trust Company, New York City, N. Y. Said notes mature Two notes on September 1 of each of the years 1925, 1926 and 1927; Three notes on September 1 of each of the years 1928 to 1932, inclusive; Four notes on September 1 of each of the years 1933 to 1938 inclusive; Five notes on September 1 of each of the years 1939 to 1944, inclusive.

For further information address P. C. Eldred, Clerk of the Board of County Commissioners, Fort Pierce, Florida.



Bids close October 9, 1923.

**\$25,000 6% Warrants**

Bushnell, Fla.

NOTICE IS HEREBY GIVEN, that the Secretary of the Board of Public Instruction in and for Sumter County, Florida, will receive bids up to noon on the 9th, day of October, 1923, for an issue of \$25,000. Interest Bearing Coupon Warrants, dated Sept. 1st, 1923, in the denomination of \$1000 each, bearing interest at the rate of 6% per annum, interest payable semi-annually, both interest and principal payable at the Hanover National Bank, in the City of New York, and said warrants maturing as follows:

- 5 of said Warrants due and payable Sept. 1st, 1928;
- 5 of said Warrants due and payable Sept. 1st, 1933;
- 5 of said Warrants due and payable Sept. 1st, 1938;
- 10 of said Warrants due and payable Sept. 1st, 1943.

A deposit of one per cent will be required as evidence of good faith.

The Board reserves the right to reject any and all bids.

W. T. EDDINS,  
Secretary Board of Public Instruction,  
Sumter County, Florida.

Bids close October 1, 1923.

**Steel Bridge**

Quitman, Miss.

Notice is hereby given that sealed bids will be received and may be filed with the Clerk of Board of Supervisors Clarke county, Quitman, Miss., until 2 o'clock Monday, the 1st day of October, 1923, for building and furnishing material for a steel bridge to be built over Chickasawhay river one mile west of Stonewall, Miss., according to plans and specifications now on file with undersigned clerk. Bidders expected to file certified check for 5% of bid as a guarantee of good faith. Board reserves the right to reject any and all bids. This September 7th, 1923.

W. B. RALEY, Clerk.

Bids close October 2, 1923.

**Mermentau River Bridge**

Baton Rouge, La.

Sealed proposals will be received by the LOUISIANA HIGHWAY COMMISSION, at its offices in the Raymond Building, Baton Rouge, Louisiana, up to 12 o'clock noon Tuesday, October 2nd, 1923, at which time and place they will be publicly opened, for the construction of a Highway Bridge and approaches over the Mermentau River at Mermentau, Louisiana, to be known as the Mermentau River Bridge, Federal Aid Project No. 122.

Construction consists of one channel span 320 feet, riveted through trusses, 20 feet clear roadway, 20 feet high above high water elevation and resting on concrete piers 54 feet high on pile foundations. The plans for the Approach Bridging have been prepared for two alternate types.

Alternate "A" consists of a series of 39 foot reinforced concrete deck girder spans resting on reinforced concrete open bents and pile foundations, 7 spans on the east end and 10 spans on west end of bridge:—

Alternate "B" consists of a series of 19 foot creosoted timber spans on creosoted piling, 16 spans on east end and 27 spans on west end of bridge.

The earth embankment approaches and gravel surfacing, on the same, containing approximately 30,000 cubic yards Earth Borrow and 1200 cubic yards gravel surfacing are to be constructed at the same time the bridge is being constructed but under separate contract.

The entire project will be divided into two Sections: Section "A" will be earth-work approaches and Section "B" will be bridge proper. Bids may be submitted on either or both Sections and on either or both types of Approach Bridging.

Information as to the location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract, may, on application be obtained at the office of the Louisiana Highway Commission, Raymond Building, Baton Rouge, Louisiana. Plans and specifications may be inspected at the office of the commission in Baton Rouge or will be furnished upon receipt of \$5.00 as payment therefor, not to be refunded.

J. M. FOURMY,  
State Highway Engineer.  
W. T. PETERMAN, Chairman,  
Louisiana Highway Commission.

Bids close October 16, 1923.

**Bridge and Bulkhead Construction**

Clearwater, Fla.

Sealed proposals will be received by the Board of County Commissioners of Pinellas County, at the Courthouse at Clearwater, Florida, up until 10 o'clock A. M., Tuesday, October 16, 1923, at which time they will be opened and read publicly for the furnishing of the necessary materials, equipment, tools and labor for the construction of one 8x4 foot concrete box culvert, concrete slab and combination concrete curb and gutter, 1500 lineal feet of creosoted timber bulkheads.

The work to be done includes the following approximate quantities:

- 84 M.F.B.M. Creosoted bulkhead timber.
- 2500 Lineal feet Creosoted Timber piles.
- 290 Square yards 6"-8"-6" Reinforced concrete slab.
- 258 Lineal feet concrete curb and gutter.
- 258 Lineal feet concrete guard rail.
- 46 Cubic yards class "A" concrete.
- 4570 Pounds reinforcing steel.

All complete in place according to plans and specifications on file in the County Engineer's Office, Clearwater, Florida.

Proposals will be considered on the lump sum basis for structures complete in place.

Plans and specifications may be secured from the County Engineer, upon payment of five dollars (\$5.00) which will be refunded upon return of said plans and specifications in good condition within fifteen (15) days from the date of opening proposals.

All proposals shall be accompanied by either a certified check on a Pinellas County Bank, drawn to the order of Pinellas County, E. H. Beckett, Chairman, or a Bidders Bond executed by a resident Agent now doing business in Pinellas County, representing a Surety Company authorized to do business in the State of Florida, and otherwise acceptable to the County. Such certified check or bidders bond shall be in the sum of Five per cent (5%) of the total amount of the proposal accompanied by the same.

A construction bond in the amount of fifty per cent (50%) of the amount of the contract with a Surety Company complying with all the requirements above noted will be required.

The County reserves the right to select the type of structure and to reject any or all bids.

Board of County Commissioners, Pinellas County, Florida.

E. H. BECKETT,  
Chairman.  
C. E. BURLISON,  
County Engineer.

Bids close October 16, 1923.

**Road Construction**

Clearwater, Fla.

Sealed proposals will be received by the Board of County Commissioners of Pinellas County at the Courthouse at Clearwater, Florida, up until 10 o'clock A. M., Tuesday, October 16, 1923, at which time they will be opened and read publicly, for the furnishing of the necessary materials, equipment, tools and labor for the construction of certain roads are as herein referred to.

The work to be done shall include the construction of a paving surface—with all incidental work preliminary thereto—of vitrified brick with bituminous filler, or asphalt block with asphalt filler, or sheet asphalt, or bituminous macadam penetration method, all on a compacted lime rock base, with concrete curb; or portland cement concrete pavement, as alternate types of construction on road number 1, 2, 3, 4, 6, 7 and 8; and for the construction of re-laid vitrified brick surface with bituminous filler and double bituminous surface-treated lime rock shoulders on road number 5; all as indicated and described in the plans and specifications for the work.

The completed work will include approximately 250,000 square yards of re-laid vitrified brick surface with asphalt filler and approximately 550,000 square yards of new pavement surface of the alternate types above designated; together with all clearing, grubbing, grading, drainage structures, rock base, curb and other items appurtenant to the completed work.

The roads to be improved and constructed are divided in the following groups:

Group 1—Section 1 of road 1 and section 1 and 2 of road 4.

Group 2—Section 2 of road 1 and roads 2, 3 and 8.

Group 3—Roads 5, 6 and 7.

Proposals will be considered only on the following basis; on the combined projects as a whole, or on the combined projects in any one group.

Bidders submitting proposals on any road in a single group must also bid on all other roads in that group.

Bids will also be considered on the combined projects as a whole or on any group as a whole on the lump sum basis, and the County reserves the right to award each contract on either a lump sum or unit price basis as it may consider to its best interest.

All items necessary for the completion of any road in connection with the type of wearing surface must be bid upon, and if not, same shall be sufficient cause to reject the proposal.

All work done and materials furnished shall be in accordance with the provisions of the plans and specifications therefor on file in the office of the County Clerk and of the County Engineer, Courthouse building, Clearwater, Florida.

Plans and specifications may be secured from the County Engineer, upon payment of ten dollars (\$10.00) which will be refunded upon return of said plans and specifications in good condition within fifteen (15) days from the date of opening proposals.

All proposals shall be accompanied by either a certified check on a Pinellas County Bank, drawn to the order of Pinellas County, E. H. Beckett, Chairman, or a Bidders Bond executed by a resident Agent now doing business in Pinellas County, representing a Surety Company authorized to do business in the State of Florida, and otherwise acceptable to the County. Such certified check or bidders bond shall be in the sum of Five per cent (5%) of the total amount of the proposal accompanied by the same.

A construction bond in the amount of fifty per cent (50%) of the amount of the contract with a Surety Company complying with all the requirements above noted will be required.

The County reserves the right to select the type of pavement and to reject any or all bids.

Board of County Commissioners, Pinellas County, Florida.

E. H. BECKETT,  
Chairman.  
C. E. BURLISON,  
County Engineer.

Bids close October 9, 1923.

**Road Improvement**

Inverness, Fla.

Sealed proposals addressed to the Board of County Commissioners of Citrus County, Inverness, Fla., and marked "Sealed Proposal for Road Improvements," will be received until 2 P. M., October 9, 1923, to be opened immediately thereafter, for furnishing material, equipment and labor constructing certain work in Citrus County, Fla., approximately as follows:

17.7 miles of highway improvements on Crystal River-Inverness road, consisting of 64,000 cu. yds. Grading  
160,000 sq. yds. Paving

Also, necessary clearing, drainage structures, foundations and appurtenances.

Each bid is to be on blank forms furnished by the Board and is to be accompanied by a certified check, or bid bond issued through a Citrus County agency by a bonding company qualified to do business in Florida, for \$5000.00, made payable to the Chairman.

Certified check or bid bond will be forfeited as liquidated damages to the County if contract and bond are not executed within time specified, if County accepts proposal, otherwise will be returned within ten days.

The right is reserved to reject any or all bids.

After September 22, plans and specifications may be seen at the office of the Clerk, also at offices of the engineers. Specifications may be secured from the Clerk by payment of \$2.00, to cover cost of reproduction, which will be refunded when specifications are returned with a bona fide bid.

J. K. KELLEY, Chairman.  
C. D. SCHULTZ, Clerk.  
E. V. Camp and Associates,  
Consulting and Supervising Engineers,  
Atlanta, Ga.,  
Jacksonville, Fla.



Bids close September 24, 1923.

### Street Paving

Leesburg, Fla.

Sealed proposals on blank forms furnished by the City and addressed to "THE BOARD OF COMMISSIONERS AND CITY MANAGER, LEESBURG, FLORIDA," will be received until 2 P. M., September 24th, 1923, at Leesburg, Fla., for furnishing all material, equipment and labor for doing the following work:

Approximately 60,000 sq. yds., of street paving, with all necessary drainage and curb and gutter, as specified.

Each bid must be accompanied by a certified check or bidders bond, made payable to the City Manager, for not less than Five Thousand (\$5000) dollars.

Plans and specifications may be seen at the office of the City Manager and at the office of the Engineers and Specifications may be obtained from the Engineers.

Full set of plans will be furnished by the Engineers upon payment of Fifteen Dollars to cover cost of printing, etc., of this amount Ten Dollars will be refunded if the plans are returned in good condition on or before the opening of bids.

The right is reserved to reject any or all bids.

W. A. MACKENZIE, Mayor Com'r.

D. E. BIVENS, City Manager.

H. S. JAUDON ENGINEERING CO., Engrs.  
Elberton, Georgia.

Bids close September 24, 1923.

### Sewers

Leesburg, Fla.

Sealed proposals on blank forms furnished by the City and addressed to "THE BOARD OF COMMISSIONERS AND CITY MANAGER, LEESBURG, FLA." will be received until 2 P. M., September 24th, 1923, at Leesburg, Fla., for furnishing all material, equipment and labor for doing the following work:

Approximately two (2) miles eight (8) inch pipe sewer extensions and one (1) mile four (4) inch house connections.

Each bid must be accompanied by a certified check or bidders bond, made payable to the City Manager, for not less than five hundred (\$500.00) dollars.

Plans and specifications may be seen at the office of the City Manager and at the office of the Engineers and specifications may be obtained from the Engineers.

Full set of plans will be furnished by the Engineers upon payment of five (\$5.00) dollars, to cover cost of printing, etc., half of which will be refunded upon the return of the plans in good condition before the opening of the bids.

The right is reserved to reject any or all bids.

W. A. MACKENZIE, Mayor Com'r.

D. E. BIVENS, City Manager.

H. S. JAUDON ENGINEERING CO., Engrs.  
Elberton, Georgia.

Bids close September 25, 1923.

### Concrete Road

STATE OF MARYLAND  
STATE ROADS COMMISSION  
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building one section of State Highway, as follows:

Frederick Co. Contract F-62. One section of State Highway between Libertytown and Oak Orchard for a distance of 2.0 miles (Concrete) will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 25th day of September, 1923, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 13th day of September, 1923.

JOHN N. MACKALL,

L. H. STEUART, Chairman  
Secretary.

Bids close September 27, 1923.

### Road Construction

OFFICE OF THE STATE ROAD

DEPARTMENT

Tallahassee, Fla., 8/28/23.

Sealed proposals will be received at this office until 12 o'clock noon on the 27th day of September, 1923, for the construction of the following sections of Roads:

Hard Surface (Plain Cement Concrete or Asphaltic Surface Projects) including clearing and grubbing, grading, surface and drainage structures.

Project No.	Road No.	County	Length (miles)
37-A	2	Alachua	0.701
37-C	2	Alachua	3.261
37-D	2	Alachua	2.14
38-A	1	Escambia	2.30
40-A	4	Brevard	16.169
40-D	4	Brevard	6.727
597	4	Volusia	16.280

Clearing and grubbing, drainage structures and dredged Embankment.

Clearing and grubbing and dredged Embankment.

Clearing and grubbing, grading, drainage structures and 8-inch Rock Base.

Clearing and grubbing, grading, drainage structures and 8-inch Rock Base.

All work to be done in accordance with plans and Specifications of the State Road Department.

A certified check or bidder's bond made payable to the Chairman of the State Road Department in the sum of five (5%) per cent of the amount bid, must accompany each proposal.

Plans may be examined at this office or at the offices of the Division Engineers, or may be obtained upon application to this office for the sum of \$5.00 each, which amount will be refunded if plans are returned in good condition by a Bona Fide bidder within 10 days after bids have been received.

The right is reserved to reject any or all bids.

H. B. PHILIPS,

J. L. CRESAP, Acting State Highway Engineer.

Bids close October 9, 1923.

### Sewer Construction

Bluefield, W. Va.

Sealed proposals for the construction of sewers will be received at the office of the City Manager at the City Hall, Bluefield, West Virginia, until two o'clock P. M., October 9, 1923.

The work includes approximately fourteen (14) miles of pipe and segment block in sizes between six and forty-eight inches inclusive; approximately two (2) miles of reinforced conduit; approximately five hundred (500) manholes; approximately one hundred (100) storm water inlets; approximately one hundred (100) catch basins, and approximately two thousand (2000) feet of ditch widening.

All bids must be on the blank form of proposal furnished by the City, and must be accompanied by a certified check for five per cent (5%) of the amount of the proposal.

The successful bidder must furnish a contract bond for fifty per cent (50%) of the amount of the contract for the faithful performance of the contract.

Copies of the plans, proposals and contract forms may be obtained by prospective bidders at the office of the City Manager.

The City reserves the right to reject any or all bids.

CLARENCE E. RIDLEY,

City Manager.

Bids close October 2, 1923.

### Water Main Extension

Leland, Miss.

Sealed bids for furnishing f. o. b. Leland, Mississippi and for laying the following pipe, hydrants and valves for water main extension, will be received until 7 P. M. Tuesday, October 2nd, 1923, by the Mayor and Board of Aldermen of Leland, Mississippi, at which time and place they will be publicly opened and read.

The pipe shall be standard hub and spigot, Class B, Cast Iron Pipe or Cast Iron pipe manufactured by the Centrifugal Process or other Cast Iron Pipe of equal quality and strength to Standard Class B Pipe.

Item A:—For furnishing the following quantity of pipe f.o.b. Leland, Mississippi:

100 ft. of 12 inch pipe
2000 ft. of 10 inch pipe
540 ft. of 8 inch pipe
11,000 ft. of 6 inch pipe
10 tons of Specials.

Item B:—Furnishing f.o.b. Leland:

22— 6 inch hydrants

2— 4 inch hydrants  
3— 10 inch valves and boxes  
10— 6 inch valves and boxes  
4— 4 inch valves and boxes  
Item C:—For laying the above quantity of pipe, including placing hydrants, valves and boxes.

Bids will be received separately or combined on the hydrants. The Board reserving the right to award the contract by items or combined.

The right to reject any or all bids or to accept any bid which the Mayor and Board consider best for the interest of the City; and all other usual rights reserved.

J. T. MATHIS, Mayor.

J. H. O'QUINN, City Clerk.

R. A. PHILLIPS, Supt. Water & Light System

MASSENA L. CULLEY, Consulting Engineer, Jackson, Miss.

Bids close October 9, 1923.

### Water Works and Sewerage

#### Improvements

Kings Mountain, N. C.

Sealed proposals will be received by the Board of Commissioners of the Town of Kings Mountain, North Carolina, until 12 o'clock M., Tuesday, October 9th, 1923, for making water works and sewerage extensions.

The work includes:

Reinforced concrete Sewage Sedimentation Tank. Furnishing and laying two (2) miles of water mains six (6) and eight (8) inches in diameter, with accessories. Building five (5) miles of sewers, and furnishing eight (8), ten (10) and twelve (12)-inch sewer pipe.

The principal quantities involved are:

72 Lineal feet fourteen (14) inch water mains, 5602 Lineal feet eight (8) inch water mains, 4725 Lineal feet six (6) inch water mains 21,560 Lineal feet eight (8) inch sewer mains, 1980 Lineal feet ten (10) inch sewer mains, 2840 Lineal feet twelve (12) inch sewer mains, 48 Valves and 27 hydrants.
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Plans will be on file and may be seen at the office of the Town Clerk, Kings Mountain, N. C., and at the office of The Ludlow Engineers, Winston-Salem N. C. after September 20th, 1923.

For the convenience of prospective bidders, the Engineers will furnish copies of the plans upon application accompanied by a check for \$10.00 to cover the cost, or separate prints will be furnished at \$1.00 each.

Each bid must be accompanied by a certified check in the sum of \$2500, or 5% of the amount of partial bids.

Proposals will be opened publicly with the usual rights reserved.

P. D. HERNDON, Mayor.

C. G. DILLING, Sec. & Treas.

The Ludlow Engineers,

Winston-Salem, N. C.

J. L. Ludlow, Consulting Engineer.

Bids close October 4, 1923.

### Hotel

Louisville, Ga.

Sealed proposals will be received by R. G. Price, Secretary, at his office, Louisville, Ga., on Thursday, October 4th, 1923, at twelve Noon, for the erection of a hotel building, according to plans and specifications prepared by Willis Irvin, Architect, Lamar Building, Augusta, Ga.

Plans and specifications may be secured by Building and Heating Contractors upon a deposit of \$25.00 by Building Contractor and \$10.00 by Heating Contractors, which deposits will positively not be returned unless bona fide bid is made and the plans and specifications returned in good condition to the Architect. Building Contractors may secure extra sets of plans upon a payment of \$5.00 per set, to cover printing costs; these plans to remain the property of the Architect. Plans will be on file in the offices of R. G. Price, Secretary, Louisville, Ga., Willis Irvin, Lamar Building, Augusta, Ga., the Savannah Builders Exchange, Savannah, Ga., and the Atlanta Builders Exchange, Atlanta, Ga.

Proposals for the erection of the building shall be accompanied by a certified check of \$1000.00, or Bidders Bond, and for the Heating of the Building by a certified check of \$500.00, said checks to be made payable to R. G. Price, Secretary. Surety Bond will be required of the successful bidders. The right to reject any or all bids is reserved.

R. G. PRICE,

Secretary.

Bids close October 10, 1923.

**Jail**

Shelby, N. C.

Sealed proposals will be received by the Board of County Commissioners of Cleveland County at the Court House at Shelby, N. C., at noon on Wednesday, October 10, 1923, for the following contracts:

1. For a county jail building in the city of Shelby, N. C.
2. For cells, window guards and steel doors in said building.
3. For the jail complete, including building and cell work.

Plans and specifications may be seen and estimates made without cost at the following points:

Office of Wilson & Berryman, Architects, Columbia, S. C.

Office of Wilson & Berryman, Architects, Gastonia, N. C.

Office of Wilson & Berryman, Architects, Wilson, N. C.

Builders Exchange, Columbia, S. C.

Builders Exchange, Atlanta, Ga.

Chamber of Commerce, Charlotte, N. C.

Chamber of Commerce, Greensboro, N. C.

Chamber of Commerce, Raleigh, N. C.

Office of County Commissioners, Shelby, N. C.

They may also be obtained on application to Wilson & Berryman, Columbia, S. C., on deposit of \$25.00 as a guarantee that they will be returned in good condition and without expense within five days of the date on which bids are submitted, and that a bona fide bid is made. When these conditions are met the deposit will be refunded, but otherwise it will be retained by the Architects.

Sub-contractors and material men may secure such portions of the plans and specifications as they may desire at current blue print rates.

Each bid must be accompanied by a certified check or bid bond for \$2,000.00 as a guarantee that if accepted, the contractor will enter into a contract and give bond in approved surety company for an amount not less than one third of the contract price.

The right is reserved to reject any or all bids.

A. E. CLINE,

Chairman of County Commissioners.

Bids close October 2, 1923.

**Pipe**

Leland, Miss.

Sealed bids for furnishing f.o.b. Leland, Mississippi the following pipe for storm sewer construction, will be received until

7 P. M. Tuesday, October 2, 1923, by the Mayor and Board of Aldermen of Leland, Mississippi, at which time and place they will be publicly opened and read.

The pipe shall be double strength vitrified hub and spigot sewer pipe or concrete or iron pipe of nearest equivalent size and of equal strength.

5300 ft. of 10 inch pipe

2500 ft. of 12 inch pipe

3320 ft. of 15 inch pipe

2000 ft. of 18 inch pipe

320 ft. of 21 inch pipe

1700 ft. of 24 inch pipe

530 ft. of 27 inch or 30 inch pipe

37 manholes

180 inlets

Automatic gate Valves: 1-36 in., 1-30 in.,

4124 in., 2-18 in., and 2-15 in.

The right to reject any or all bids or to accept any bid which the Mayor and Board consider best for the interest of the City; and all other usual rights reserved.

J. T. MATHIS, Mayor.

J. H. O'QUINN, City Clerk.

R. A. PHILLIPS,

Superintendent Water &amp; Light System.

MASSENA L. CULLEY,

Consulting Engineer, Jackson, Miss.



## CLASSIFIED OPPORTUNITIES

**MINERAL AND TIMBER LANDS WATER POWERS, MISCELLANEOUS PROPERTIES****GRAVEL PIT**

FOR SALE.—Gravel pit; now operating; finest Tishomingo cement gravel; inexhaustible; Tishomingo County, Mississippi. Write W. L. Elledge, Atty. Corinth, Miss.

**COAL LANDS AND MINES**

FOR SALE OR EXCHANGE—2500 acres unimproved coal land in tracts, \$35 per acre; has several seams; top drift; adjacent railroad, mines, gas and oil. Write J. CAVANAGH, McAlester, Okla.

**TIMBER AND TIMBER LAND****HONDURAS TIMBER FOR SALE.**

For Sale—170,000 acres in Honduras cruising over two billion feet virgin pine. Only one dollar per thousand feet. Easy terms. Full data on request.

L. W. TULLEYS, Council Bluffs, Iowa.

ALL KINDS OF TIMBER and any size of tract. Southern and Western timber. Going Mills, Etc. W. L. English, Americus, Ga.

**FARM, FRUIT, AND TRUCK LANDS****FLORIDA**

FOR SALE—Choice colonization tracts, timber and farm lands in Northwest Florida at prices from \$5.00 to \$25.00 per acre. Also houses, hotels, apartments, bungalows and lots for sale in the Sunshine City of St. Petersburg, Florida. For particulars address, Jones & Yates Realty Company, 201 Sumner Building, St. Petersburg, Florida.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet "Largest Orange Tree in the world," and list. Tampa-West Coast Realty Co., (Inc.), Opp. Post Office, "Since before the war," Tampa, Fla.

**MEXICO**

FOR SALE—334,600 acres of land located in the State of Old Mexico forty-five miles southwest of Chihuahua City joining the big tract of land settled by the Menonites from Canada. 30,000 acres of this land can be irrigated. All this land has a heavy growth of Grama grass fine for cattle or sheep and can be dry farmed. Title is good. Price \$1.75 an acre, in U. S. Money. For further information write George Gerlach, Canadian, Texas.

**FARM, FRUIT, AND TRUCK LANDS****NORTH CAROLINA**

BEAUTIFUL, fertile country estate, two thousand acres, near Wilmington. Railroad and hard surface highway run through property. Fronts ocean one mile. Ideal hunting preserve. Duck, quail, wild turkey. Fish at all times. Farm will produce fifteen to twenty-five thousand dollars annually. Good man in charge, can be retained. Impossible appreciate place without seeing it. Box 321, Wilmington, N. C.

**SOUTH CAROLINA**

SECLUSIVE BUILDING SITES perfectly drained on deep water. Large acreage in magnolias, live oaks, palmettoes, and Southern pines. Situated on three-mile expanse of water. Excellent health. Pure artesian water. Winter temperature 57.2 degrees. Roses and other flowers bloom in mid-winter. Five miles to railroad station. Excellent neighborhood. Ideal for winter homes. Fishing and hunting. If interested, write

LAKE REALTY COMPANY,  
Beaufort, S. C.

**BUSINESS OPPORTUNITIES**

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,

Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

WANTED.—To trade for Light and Ice Machinery and apparatus, \$13,500 second Mortgage on 429 acre farm, 4 years to run at 7% First Mortgage for \$4000. Land easily worth \$32,000. Address Box 604 Shamrock, Okla.

"MACHINERY AND SUPPLY BUSINESS for sale. The owner of a well advertised and established machinery business will sell at a sacrifice all or controlling interest. Bad health necessitates retiring. Box 1191, Wilmington, N. C."

WANT TO GET in touch with people with money to finance meritorious Cotton Raising. Irrigating raw lands, Sheep, wool and lamb production, Alfalfa Raising on Rio Grande Valley lands 100 miles southeast of El Paso, Texas. River lands produce bale of cotton to acre under irrigation. Plenty of cheap Mexican labor, cheap lands and cheap grass. Fine climate for sheep raising and cotton production. Will return original investment to investors and leave property of value of investment in hands of holders as irrigated lands are sold. Write George Gerlach, Canadian, Texas.

**COLLECTIONS****PACIFIC COAST COLLECTIONS**

M. Z. FARWELL, INC.  
507 Flatiron Building  
San Francisco, Cal.

**CAPITAL WANTED**

FOR GAS MAIN for forty to fifty miles from natural gas well, with any amount of gas to Fayetteville, Arkansas and piping Fayetteville and laying all mains and pipes. I have an option on the gas and a franchise for Fayetteville (8000 population) and will have for nearby towns. For any information, address

M. Baum,  
Box 5, Fayetteville, Ark.

**FINANCIAL****SOUTHERN MILL STOCKS BANK STOCKS BONDS**

25 years' experience in this field.  
F. C. ABBOTT & CO.,  
Charlotte, N. C.

VALUABLE TEXT-BOOKS on the "Money Question"—The most vital question affecting the welfare of the people. The Monetary Educational Bureau, Kellogg Bldg., Washington, D. C.

**BRICK PLANT WANTED**

WANTED to lease brickyard from owner with option to buy. Give particulars of material fuel, capacity and quantity of raw material. Address No. 6218, care Manufacturers Record, Baltimore, Md.

**INDUSTRIES WANTED****ALTAVISTA, VIRGINIA**

A live town.

Two railroads, Virginia City basic freight rate.

Free manufacturing sites. Staunton River passes through the town. We invite you to look us over.

CHAMBER OF COMMERCE

FAYETTE, ALA., wants INDUSTRIES, large or small. Fine location for cotton mill, Tannery, Box and Veneer Factory. Good labor conditions, cheap power, healthy climate, on railroad, in center of cotton and lumber section. Address, Chamber of Commerce.



INDUSTRIES WANTED

"INMAN, S. C., wants industries, large and small. Offer cheap power—healthful climate—good labor conditions. Address Inman Chamber of Commerce, Inman, S. C.

INDUSTRIAL PLANTS

FOR SALE—MANUFACTURING PLANT IN JERSEY CITY SUITABLE FOR DRY AND MACHINE SHOP ON CENTRAL RAILROAD OF NEW JERSEY. ABOUT 90,000 SQUARE FEET UNDER ROOF ON APPROXIMATELY FOUR AND ONE-HALF ACRES. MAJORITY BUILDINGS RECENTLY CONSTRUCTED. FOR DETAILS APPLY

THE M. W. KELLOGG COMPANY  
JERSEY CITY, N. J.

COMPLETE GRIST MILL FOR SALE. Wolfe equipment throughout. Two Stands of Rolls; Burr Mill; Corn Cleaner; Sifter; Asperator; Dryer; Scales; Williams Feed Mill; and Corn Sheller, which will shell, shuck and clean, can be operated by electricity or steam. Capacity—Twenty-five (25) bushels per hour. Good freight rate in and out of Palatka.

MERRYDAY GROCERY COMPANY,  
Palatka, Florida.

FACTORY SITES

FOR SALE—FACTORY SITES in best diversified successful manufacturing city in United States. Warren Ross Lumber Co., Jamestown, N. Y.

For Sale  
MANUFACTURING SITE  
on Railroad and Water  
Hastings Bros., Norfolk, Va.

PATENT ATTORNEYS

PATENTS—TRADEMARKS—INVENTORS SHOULD write for our free Guide Books. List of Patent Buyers and RECORD OF INVENTION BLANK before disclosing their inventions. Send model or sketch and description of your invention for our free opinion of its patentable nature. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 624 F St., Washington, D. C.

PATENTS AND PATENT CAUSES—Searches; Applications; Reports on questions of validity and infringement. Development, design, manufacture and contracts. Registered Patent Attorney; Member American Society of Mechanical Engineers. ARTHUR SCRIVENOR, Mutual Building, Richmond, Va.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 7th St. N. W. Washington, D. C.

PATENT ATTORNEYS

PATENT SENSE  
"The Book for Inventors and Manufacturers." FREE. WRITE LACEY & LACEY, Dept. 15, Washington, D. C. Est. 1869.

SITUATIONS WANTED

YOUNG MAN—Nine years' experience in the handling of finance, credits, accounts, purchasing, sales, production, etc. For past six years assistant to president large interests. Good education; good health; correct appearance; clean and successful record. Liquidation of holdings account permanent illness of president reason for seeking new connection. Location or entrance salary of little importance but desire permanent connection where advancement is possible as ability is proven. Address 6217, care Manufacturers Record.

YOUNG EXECUTIVE AND ENGINEER, married, possessing college education, energy, confidence, ability to plan and execute work, widely travelled, excellent health, and seasoned with eleven years experience inclusive of three years profitable Naval Service, seeks a connection with Manufacturing or Commercial Organization. He will faithfully and diligently apply himself to the mastery of your business and the development of himself for a position of trust and responsibility. He now occupies position of responsibility, ranking next to the Department Head, with the South's largest Railway System. Past experiences can and will be capitalized in another field offering greater opportunities. The opportunity to prove his worth is sought.

R. L. A.,  
P. O. Box 1345, Charlotte, N. C.

MEN WANTED

COAL PROTECTING SERVICE.  
MANUFACTURER of coal-protecting device that eliminates all possibility of fire of coal in storage is seeking representation in several important industrial centers. Firms selling power plant equipment will find this an excellent opportunity to add another profitable product to their line. Article is one of urgent need, and can be handled by present sales force. Manufacturer stands squarely back of product and offers hearty co-operation. Only first-class firms having established connections and reputation in the power plant equipment field can be considered. Write full details indicating territory you cover to No. 6222, care Manufacturers Record, Baltimore, Md.

BIG MONEY FOR HUSTLERS  
An Unusual Opportunity for a few high grade men or firms to act as distributors for patented article backed by highly rated established company. This article is nationally advertised, known in every state, and used by the country's largest firms. Enables them to get more power at less cost using same machinery. All or part time men acquainted with engineers, factories, ice companies, railway mechanical executives, machine shops, preferred. Write for application blank. Box 502, Wellston, St. Louis, Mo.

WANTED—Sewer foreman, experienced in wet excavation.  
Tucker & Laxton.  
900 Realty Building, Charlotte, N. C.

MEN WANTED

Salaried positions \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional managing, financial, etc., all lines. If you are qualified, and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

MACHINERY AND SUPPLIES

FEED MILL MACHINERY—Alfalfa grinder, chop mill, oat crimper, batch mixer, shafting, pulleys, elevators—complete 50-ton plant. Will sell all or any part. List and price on request. GRENADA FEED MILLING CO., Grenada, Miss.

GIRDERS, BEAMS—For Sale—One girder composed of two 15-inch I-beams with ¼-inch plate riveted on the bottom; 26', 5½" long. One girder, same as above, 25', 11½" long. Three 8-inch I-beams, 8', 4¼" long. Except for slight scale, in good condition. Phil P. Scroggs, 610 Lamar Building, Augusta, Ga.

OFFERING WHOLE OR IN PART  
ENTIRE MANUFACTURING PLANT  
AT FULLERTON, LA.

DISTILLING PLANT COPPER Complete (7000 Gals. alcohol daily) including all copper piping and alcohol copper tanks 86,000 gals. capacity.

ETHER PLANT BADGER MAKE COMPLETE Capacity 4800 Gals. per 24 hours. STORAGE TANKS STEEL 12 Horizontal-Vertical for acids ether molasses.

STEEL BUILDING 340 ft. long 60 ft. wide 40 ft. high Gal. iron roof-sides.

DIFFUSION (Autoclave) BATTERY Nine cells Acid proof ½" steel Pusey-Jones.

CHIP SHREDDER WILLIAMS No. 8 Capacity 30 cords hogged wood per hour.

MOTORS 33 5 HP to 30 HP Leaded cable 2000 ft. Power Cable 10,800 ft. Wire weatherproof 13,100 ft. Lighting wire 12-300 ft. Conduits 2"-½" 59,000'.

PUMPS BRONZE CENTRIFUGAL 6 Direct Motor driven 3 Belt driven.

PIPING STEEL 7000 ft. 8" cast piping 1200 ft. Valves and fittings 3000.

CONVEYORS BELT-CHAIN ¼" Troughs Fire Hydrants 11 Extinguishers Hose

Nozzles.

SPRINKLERS Grinnell 11 Systems Complete Heads Lead Pipe Band Iron Plates.

BRASS FOUNDRY OUTFIT Concrete Mixer Nesco Oil Tanks 5 pumps Time clock 8 day.

SHAFTING Pulleys Boxes Stands Belt-

ing Machine bolts 7000 Lag Screws 700.

BEAM JOIST HANGERS 264 Pipe Brackets Shop Machines Tools supplies.

WOODEN TUBS 3" staves Used Lumber Ship Lap 30,000 ft. Dimension 280,000 ft.

Address: DEMING APPARATUS CO., 150 Nassau St. New York City or Fullerton,

La., or Apartado 109 Havana, Cuba.

SPECIAL ADVERTISEMENTS  
Of GENERAL INTEREST

Attention Furniture Manufacturers:

A series of one story buildings in splendid condition with fine equipment of woodworking machinery, located immediately on line of Southern Railway with spur track entering property; would make ideal location for furniture manufacturing. Located in furniture manufacturing section; three main trunk line railways radiating in all directions. Industrial Community, splendid labor supply, no unions, reasonable wages. Middle Atlantic States, splendid location for domestic or foreign distribution. Can be purchased at a bargain.

Address A-309 care Manufacturers Record, Baltimore, Md.

STEEL CASTINGS

From 1-lb. to 8000 lbs.

Open Hearth Process Operated on Chemical Analysis  
Basis—Complete Metallurgical Laboratory

Pattern Work Solicited

Send Us Your Inquiries

R. U. CULBERSON, Receiver

LUCEY MANUFACTURING CORPORATION OF TEXAS  
HOUSTON, TEXAS



## "Make It In Alabama"

### PELL CITY has—

2,400 Population.

County Population, 23,000.

Farm Products—Corn, Hay, Cotton and Staple Crops.

Minerals—Cement, Clay, Coal, Marble, Iron.

Two railroads.

Good Highways.

Fine Water System.

**FREE FACTORY SITES.**

Labor and Living Conditions are the Very Best.

Churches and Good Schools.

Fine type of citizens.

Abundant supply of Hydro-electric Power at reasonable Rates.

**TAX EXEMPTIONS to Certain New Industries.**

## New Industries are Wanted in Pell City, Alabama

Possibly no small town in the Southeast offers more abundant supply of raw materials, plentiful labor supply, and every other factor that will advance the needs of manufacturing, than can be found in this city and adjacent section.

There is a valuable and undeveloped source of clay, mineral and marble supply here. More than 12,000 bales of cotton come into Pell City annually. Timber abounds. The opportunity for factories is great.

**Cotton Mills, Knitting Mills,  
Pipe Works, Furniture Factory,  
Overall Plant, Brick Plant**

—are some of the industries that would find it advantageous to locate here. The people welcome foreign investment. Living conditions are excellent. Labor and transportation afford every advantage.

*Interested Parties will do well to communicate with—*

**Secretary, Chamber of Commerce  
PELL CITY, ALABAMA**

## OCONEE COUNTY

Northwestern section of Southern Carolina. Traversed by the Southern and the Blue Ridge railways, through limited trains to the East and West. Mild temperatures, winter and summer. Soil adapted to the growth of cotton, corn, small grain, fruits, and all vegetables of the Temperate Zone. Pasturage is possible for nine months in the year.

Large Water Power is now being developed for electrical transmission through the county.

SENECA, situated on the above two railway lines with roads of the State Highway system radiating to all portions of the county, is its commercial center.

SENECA offers advantages for industries such as—COTTON MILLS, FLOUR and FEED MILL, WOOD WORKING PLANTS, CREAMERY, and BAKERY.

*Information will be cheerfully furnished upon application to*

**CHAMBER OF COMMERCE  
SENECA, S. C.**

**In The Piedmont Section of South  
Carolina We Have**

## BUILDING SITES

**For Cotton Mills and Other  
Manufacturing Plants.**

Sites located on two Railroads and line of the Southern Power Co. between Greenwood and Greenville.

*Power, Labor and Climate Unexcelled*

**O. M. DANTZLER  
Real Estate and Stocks  
Greenwood, S. C.**

## YARN MILL FOR SALE

The property of Keowee Yarn Mill, Bankrupt, situate at Walhalla, South Carolina, and consisting of two brick buildings, nineteen cottages, warehouses, machinery and other equipment, will be sold by the undersigned as Trustee at noon, October 2, 1923, at Walhalla, S. C., at public auction, to the highest bidder for cash.

The court has fixed an upset price of fifty thousand dollars (\$50,000.00) for said property. Each bidder, at or before the hour of sale, will be required to file with the Trustee a certified check of \$1,000.00 as an evidence of good faith.

For full particulars and for inventory of the bankrupt's property, write to

**J. L. SHERARD, Trustee  
Anderson, South Carolina**

## AN UNUSUAL OPPORTUNITY

Is offered to purchase a series of one story buildings with tools and machinery and full line of auto material and parts, including wheels, springs, axles, carburetors, motors, etc. Buildings appraised at \$57,000.00; machinery and tools \$32,000.00; material \$201,000.00. Can be bought at great bargain. Fine opportunity for experienced manufacturer to establish auto plant or plant for manufacturing bodies. Situated in Middle Atlantic States. Fine distributing point on three trunk line railroads and plant immediately on main line with spur track. Your inquiry and investigation invited.

**Address A-307 care of Manufacturers Record  
Baltimore, Md.**

## BLUE BOOK OF SOUTHERN PROGRESS

Many individuals and organizations have distributed copies of this book by the hundreds. It is crammed full of facts and figures of the South's resources and development that Business men could study with profit. *Single copies 50c.*

**Manufacturers Record,**

**Baltimore, Md.**

**700,000,000 FEET**

of Standing Hardwood Timber in South Carolina

Echoes the Call for

# **FURNITURE FACTORIES**

Hardwood, veneer and band saw mills operate at comparatively lower costs and make the supply for furniture manufacturers easily accessible.

Operating out of Columbia are eleven separate lines of rail-

**COLUMBIA**

IS THE

**CENTRE**

OF

**IT ALL**

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roads putting you near the raw materials and in point of time close to the markets of the world. There are two direct lines to each of the six South Atlantic Seaports offering excellent export facilities.

**PERMIT US TO QUOTE YOU FREIGHT RATES**

We shall be glad to give you full particulars and to further serve you in any way

**COLUMBIA CHAMBER OF COMMERCE**  
COLUMBIA, SOUTH CAROLINA

## "Make It In Alabama"

### GADSDEN has—

17,000 Population.  
County, 50,000.  
Wonderful climate.  
Fifty miles of paved side-walks.  
Eleven and One-Half miles of paved streets.  
Beautiful residences.  
Parks and Golf Club.  
All religious Denominations.  
Fine School System.  
Social, Fraternal, Business and Civic Clubs of all kinds.  
Pure water from city-owned plant.  
Street car service better than most.  
Five railroads.  
River transportation.  
On Great Highways.  
Unlimited source of Electric Power at Low Rates.  
Every inducement to Offer New Industry.

## An Invitation to New Industry from Gadsden, Ala.

Here is a city that offers to new manufacturing enterprises the advantages of a good-sized city population, yet all the advantages of a great agricultural community. The highest type of living conditions—where costs are low, and citizenship better satisfied. FIVE RAILROADS afford unexcelled shipping facilities. River transportation assures cheap rates. In the heart of a great mineral district.

**\$1,000,000 Mineral Output  
Annually in Gadsden District  
75,000 Bales Cotton Yearly**

Recognized as one of the most prolific sources of raw material supply in the entire South. Almost every kind of industry can find here ample supply of materials, a wonderful field of distribution with unequalled facilities for marketing; abundant labor; every factor that will promote progress and profit.

*Communicate Now, With*

**Secretary, Chamber of Commerce  
GADSDEN, ALABAMA**



### \$50,000.00 Will Buy

10,000 acres of land and this Historic Colonial House, built in 1753 and occupied by the man who became Maryland's first Governor. This is the old Catocin Furnace property which was operated during the period of Slavery by negro slaves, and the picture shows the old Manor House containing 17 rooms, each with old brick fireplaces made with bricks brought from England and which was the Old Master's Home. The House is steam heated and electric lighted and is furnished with sparkling water from one of the numerous Mountain Springs, and is in elegant condition. It is located on the east edge of the 10,000 acres of land which is on the eastern range of the Blue Ridge Mountains, and fronts on the State Road for 2 1/2 miles, running from Baltimore and Washington, D. C. to Gettysburg, Pa. It is 60 miles west of Baltimore and Washington, and 12 miles from Frederick, Md.

About 2500 acres of the land has an elevation of 1800 feet, and is almost level, while 7500 acres is mountains and contains a number of tracts of good timber. Heavy deposits of Iron ore, are said to be on the property. Electric cars pass within a block of the old Homestead, and also the State Road. This is just the place for a Club or a man of means as it has numerous small lakes and creeks that are well stocked with game fish, while the timber lands have plenty of game. It is a perfectly safe investment as a growing timber proposition and the price is only \$5.00 per acre.

**JACQUES & HAUVER (Owners)**  
Smithsburg, Md.

Terms 1/2 cash

## Factory and Warehouse Sites

AT

**ATLANTA**

**For Sale or Lease**

For Manufacturing or Warehouse Purposes Only  
ON

**Central of Georgia Railway**

Extending from East Point to Inman, Georgia

Atlanta Rates	Regular Switching
Good Labor Supply	Service
Electric Power	Street Car Service
Water Supply	Suburban Trains
Electric Lights	Paved Roads

Sewerage

Write for Copy of

**"The Natural Advantages of the Atlanta  
Industrial District"**

**R. R. OTIS, Agent**

Arcade Building

ATLANTA

GEORGIA



## *From* "OVERALLS to BROADCLOTH"

**T**HERE is a wide range of materials for clothes and a correct one for each purpose and occasion.

The word steel means little for there are as many different kinds and grades of steel as there are materials for human attire.

Economy can result only when the right steel is in the right place.

Are any of your machinery parts giving short service on account of wear or breakage? Write us about them. State the conditions under which they operate.

We have had 181 years experience in the manufacture of iron and steels.

*Write for our free booklet—  
"Putting the Right Steel on the Job"*

*Service Department*

**TAYLOR-WHARTON IRON & STEEL CO.**

High Bridge, N. J.